

# Vhf-Uhf DIGEST

The Official Publication of the Worldwide TV-FM DX Association

JANUARY 1992

## MORE F2 ON TV!

YES DEAR, I  
THINK IT'S F2  
FROM DOWN UNDER



# ANARC UPDATE

## WHAT'S GOING ON AT ANARC?

It's been over a year since I submitted my last ANARC UPDATE. Over that time it looked like ANARC had expired, only to be revived on a respirator. Work had been going on to rebuild the organization with very little enthusiasm generated. Several meetings were held at various non-ANARC DX related functions with few ANARC reps bothering to attend.

Then came the letter. In November I received a note in my mail that there was a certified letter at the Post Office. I figured either I won the Publishers Clearing House Sweepstake or the State of New York was laying me off due to Budget cuts. It turns out it was from Sheldon Harvey at ANARC. (I was hoping I had won the \$7,000,000. Think of the great DX set up I could have purchased.) Sheldon starts off by complaining about the lack of enthusiasm among the clubs and their reps. At the last ANARC meeting held at the Monitoring Times Convention in North Carolina, only 4 clubs had reps (WTFDA not being one of them.). This was followed by demands. Some of the demands were reasonable. Others were a little harsh. Each club was expected to pay dues and give an annual donation based on the "benefits recieved from ANARC". Each club must run an ANARC club list in their bulletin, print the phrase "member of ANARC" on the bulletin and include ANARC information to all new members. Each club must designate a member to attend at least one ANARC meeting a year. There were 13 demands in all.

The letter brought an outcry from the clubs. An ultimatum was included- do this or get out. Most reps like myself are volunteers. We work, have time and financial constraints and family obligations. I know of no ANARC rep who is subsidized by their clubs. And what benefits have we received from ANARC over the last year? Have we gotten any new members through ANARC?

The internal politics of ANARC began to move after the letter was made public. The Executive Board ousted Sheldon and replaced him with Richard D'Angelo.

At this point in time I feel that WTFDA should remain a member of ANARC. Let's give it another year. Let's see what type of organization develops. And let's see what benefits we receive from ANARC. I've decided to take my roll as ANARC rep more seriously in 1992. I will report back to you from time to time on the progress that ANARC makes. I'd like to hear comments from the WTFDA membership. How do you feel about our membership in ANARC? Are we paying for something we may not get any benefit from or that we may not need? I want to hear the pros and cons!!

## SPRACHMAN'S CORNER

I've been able to join the ranks of the serious TV DX'ers. In September we had a new antenna installed on the roof of the house. Now I get almost everything from Hartford CT to Trenton NJ under the worst conditions. Within a few days of the installation, I was able to increase the number of stations I have received. I added Maine and New Hampshire to my list of states. I plan to start reporting my logs to the Eastern TV DX column. My wife thinks I'm crazy because I am spending more time watching television. There's a lot to watch out there.

I now pick up about 30 channels. Four channels are LPTV's. On channel 53, W53AA New York features programs in Korean, Japanese, and Chinese. W44AI Hicksville and W38AM Long Island City have an eclectic mix of psychics, Haitian programs, Arabic, Iranian and Greek programs and music videos. With W54AY Brownsville (Brooklyn), they call themselves WNYX. Often the programming is different on W38AM with much of its broadcast day made up of psychics charging \$2 a minute on a 900 number. I caught W36AS New Brunswick NJ one night. They have programs for (Asian) Indians. They seem to be on from 8 to 10 pm, Friday to Sunday. The ads are for restaurants and businesses in Northern NJ and Western Queens. I wonder what their actual signal range is? Anyone out there have any info on W36AS?

WPIX-11's translator on channel 17 W17AC has a person doing sign language during the 10 O'Clock news on weeknights. W60AI New York has the Home Shopping Spree. They do ID on the hour, usually with audio and occasionally with a video ID.

I purchased the book "Radio On Wheels" as advertised in the November VUD. It was a little different from what I had imagined. The book lists various stations along each Interstate highway. On top of the page is a map of a segment of the highway. Below is a chart of the stations listed by format, giving frequency, call letters, frequency of newscasts and special programs. The large metropolitan areas are listed in a special section.

Is the book helpful when travelling? I will find out on our next trip. If you take one or two short trips, or tend to stray away from the interstate highways, or you like small town low power radio stations, use your FM Atlas. My biggest complaints are the author's nearly automatic write-off of AM radio, stations not listed in frequency order, and city of license not being included. Finally, one improvement that the author may want to incorporate in future editions is to indicate at approximately where to start tuning to one set of stations, and where to tune out and try for the next set.

More in the future...

73's

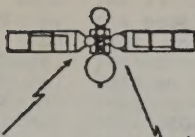
Steven Sprachman

*Steven*

15 Berry Lane  
Hicksville, NY 11801-6203.



# SATELLITE NEWS



George W. Jensen  
4604 Anntana Avenue  
Baltimore, MD 21206-4220

Its that time of the month again. Changes still are coming hot and heavy. If I have erred in some items - PLEASE feel free to let me know.

Spacenet 4 is active with several items:

XPDR 6 - ID card

XPDR 18 - Delta Downs usually in MAC

XPDR 20 - LVTN - Las Vegas Television Network  
this may be an eventual amalgam of The British  
Channel (whatever that is) - Outlaw Music Channel  
and others - but has been dark the last few days.

Still a few changes on C1

11 is now Encore with 1 vacant

4 is a sports channel in VC2

21 has been a full time NHK Tokyo feed from Japan

Many changes ongoing on what was F4 which is now replaced by Anik D2 with reversed polarity from F4 ValueVision is a new shopping service on one of the former Shop-At-Home transponders.  
The improved signal is incredible!

G6 has replaced W4

Anik E1 is on the air and operating and taking the place of D2.

CNN International and the CNN New York feed on Galaxy 2 XPDRs 1 & 5 have disappeared.

The new Intelsat has been positioned at app. 24 west and the satellite formerly there has been moved elsewhere.

Now a note to the FORUM from

RONALD PERDUE - Route #1 - Box 224 - Byron, MN 55920

Here is this months news to the Satellite TV news column in the VUD. First, let me put in my 2 cents worth on the current scrambling proliferation on satellite. In five years, I expect to see nearly every channel on satellite scrambled with the exception of Religious channels, Shopping Networks and those so-called 30 minute program length commercial channels (where the consumer is constantly getting ripped-off).

It's December 1st and still no sign of the Sci-Fi Channel. I now have serious doubt that they will ever debut on satellite! Every day I have more than a skeptical feeling that the Sci-Fi Channel is nothing more than a "sham". Why has the Sci-Fi Channel kept on delaying their start-up? Why would the Sci-Fi Channel want to keep their proposed satellite and channel where they are to start up a secret? Every day I turn on the receiver and check up on Satcom 1R or 4, even on to C1, just to see if the Sci-Fi Channel is there, but it's not.

I have written to the Satellite Source and to the National Programming Service about 3½ weeks ago to inquire about programming prices but I have never received a reply! I will write again today and hopefully will hear from them. So - see you in 30 - 73's

That's all from this end - see you in 30.

*George*  
George

# TeleVision News

Doug Smith, Editor  
14 Brookside Court  
Nashville, TN 37209-4503  
(615) 356-8305  
CIS 72777,3143  
W9WI • W4HHY.TN

## NEW STATIONS ON THE AIR

XHJUB: Ciudad Juarez, Chih.:56:  
Don't have a lot of details on this one.

KJLF: El Paso, TX: 65:  
Or on this one either.

## FORUM

### ABBREVIATIONS USED IN THIS COLUMN:

ERP= Effective Radiated Power, in kw  
HAAT=Height Above Average Terrain, in meters  
nc= No change  
TL= Transmitter Location  
CP= Construction permit  
MP= Modification permit  
(modification of construction permit)  
\*= Non-commercial

### APPLICATIONS TO CHANGE EXISTING STATIONS

St	Ch	ERP	HAAT	Call	City
CA	29	16.2	334	KZJA	Eureka
MS	51	1494	379	WPJJ	Jackson
OH	43	204	264	WUAB	Lorain
(I suspect this ERP is a typo)					
OK	44	578	164	KGLB-TV	Okmulgee
(TL 35°43'25"N, 95°59'20"W)					
PR	18	500	563	WSJU	San Juan
SC	43	1020	316	WGSE	Myrtle Beach
(Reference says 1.02kW)					
TX	22	nc	566	KL TJ	Galveston
(TL coordinates not given, but description is Senior Rd. tower farm, where most Houston stations are)					

### CHANGES GRANTED TO EXISTING STATIONS

St	Ch	ERP	HAAT	Call	City
IN	69	10.5	167	WTBU	Indianapolis
(TL 39°50'37"N, 86°10'19"W)					
MD	13	215	267	WJZ-TV	Baltimore
(TL 39°20'05"N, 76°39'03"W)					
MS	29	923	598	WMPN-TV	Jackson
(TL 32°12'46"N, 90°22'54"W)					
NY	7	316	221	WN NY-TV	Carthage
(TL 43°57'12"N, 75°43'43"W)					
TN	16	nc	322	WMTU	Jackson

### CHANGES IN THE TABLE OF ALLOCATIONS

Ch	Was	Now
12	Ardmore, OK	Sherman, TX
(Requested by KXII-12)		

Anyone know anything about a religious LPTV/translator on channel 6 in Chattanooga? I've heard it twice now on the car radio driving through. Modulation sounds about the same as WUTC-88.1, which makes me think this is a pirate FM station rather than a (legal) LPTV. Will have to remember to bring the pocket TV next time..

Another mystery contributor!

"RC", El Paso, TX:  
passed along the news of two new locals in his area, shown above. While on the subject of El Paso, I forget whether this was ever cleared up, but KSCE-38 there is definitely a religious station and not PBS.

Bill Nienajadly, Clifton, NJ:  
sent an AP article from the NYC Daily News;

"Japan began the world's first full-scale high-definition TV broadcasting yesterday; HDTV sets have been on sale for a year here, but only about 200 reportedly have been sold, mostly to businesses."

Apparently HDTV receivers retail for \$35,000, and HDTV VCRs for \$154,000, which probably explains the poor sales! Electronics manufacturers hope to bring the receiver cost down to the vicinity of \$7,500 within 5 years- still kinda steep for my blood..

Japanese promoters of HDTV had seen a \$15.4 billion market in Japan by the year 2000, but now are admitting those were optimistic estimates.

The Japanese HDTV broadcasts are via DBS broadcast satellite.

Matthew Keaper, St. Francis, WI:  
Wrote asking about reference books to look up DX stations outside his local area.

I've seen frequent references to the WTTFA's North American TV Database; this hasn't been available since I joined about 2 years ago, so I don't have one! (anyone interested in selling one?!)

The reference I use is the *Television Factbook*. This is published in two volumes & intended for use by TV stations. It's



extremely expensive (I don't know how expensive- I got my used copy from a coworker at WISC-TV!) Each commercial TV station gets a page, with channel, network, visual & aural powers, antenna height data, mailing address, and a whole bunch of other information. Also included is a coverage map showing the grade A and B contours. Non-commercial and Canadian stations don't get the coverage maps, but most of the rest of the data is there.

Another good reference is the *Broadcasting Yearbook*. It's lacking the maps, the print is somewhat smaller, and it seems to be a little less accurate, but if you DX AM and/or FM, it also includes radio stations. This is also extremely expensive-- the 1992 issue is \$160!

Obviously, you have to be awfully serious about DXing to spend over \$100 on one of these references! Luckily, there are other ways to get them...

If you know someone at a TV or radio station, you might ask whether they have any old copies they're willing to give away or sell cheap. That's how I got mine..

The *Factbook* comes in two volumes; one mostly TV stations (the one you want) and the other mostly services, including cable. The volumes are sold as a set. It's quite possible that your local cable system has a copy of the "Stations" volume they have no use for & would be willing to get rid of.

Finally, many public libraries have reasonably recent copies of both of these publications.

## FCC RULES PRIMER

is on hold until next month.. the Christmas rush, y'know..

A belated Merry Christmas & Happy New Year to all WTFDA members & their loved ones. Especially to Bill Fahber, whose continuing research is responsible for most of the quality of this column. 1992 promises to be a good year for DXing; hopefully it'll be a good one in your personal lives as well. My first New Years Resolution: to actually make it to the convention this year!

News has been a little (OK, a lot..) slow this month.. Contributions, questions, information, musings, etc. are all always welcome!

73 Doug

(apologies for the ugly logo - couldn't get it photoreduced in time!)

# STATION BREAK

WTFDA Stationbreak  
P.O. Box 514  
Buffalo, NY 14205-0514

WTFDA member ads only. Items may be edited to conserve space.

FOR SALE - RDX Labs UA-75 UHF balun, 0.1 dB loss, \$19. UA-60 VHF-UHF balun, 0.3 dB loss, \$19. UA-900 UHF amp, built-in balun, 1.0 dB NF, 20 dB gain, \$169. UA-700 VHF high-band amp, built-in balun, ch 7-13 BPF, 1.5 dB NF, 20 dB gain, \$149. All prices FOB KS. For complete data and ordering information, send large SASE.  
Jim Dietrich - P.O. Box 88 - Derby KS 67037

FOR SALE - RG-11U Commscope cable \$0.30 per foot + UPS; F-11 connectors 2/\$1.50 + UPS; P-5 UHF parabolic dish \$59.95 + UPS; P-7 UHF parabolic dish \$79.95 + UPS; MXU-59 100" corner reflector UHF yagi \$50.00 + UPS. Last call for these Winegard amplifiers: CP-4800 UHF 19 dB gain/2.1 dB noise - \$75.00 + UPS; AC-4990 UHF 21 dB gain/1.2 dB noise - \$95.00 + UPS; CP-3800 VHF 28 dB gain/3.0 dB noise - \$75.00 + UPS. Also any Winegard, Antennacraft, ChannelMaster, Blonder-Tongue equipment. Certified check or money orders only.  
Rich Wertman - 6150 Crosby Road - Lockport NY 14094 (716) 433-0805

YOUR non-commercial ad can appear in the VUD free of charge! Got a piece of DX gear you'd like to sell? Looking for something? Advertise in STATION BREAK. This feature appears on a space available basis. WTFDA and the VHF-UHF DIGEST assume no responsibility for any claims made by advertisers--our trust is implicit, as fellow DXers.



# FM NEWS

Bruce F. Elving, Ph.D., Editor  
Box 336  
Esko MN 55733-0336, U.S.A.  
Contributions earnestly solicited!

## Readers' Reports

Bob Baker sent a long review of the Day-Sequiera FM reference tuner published in the Dec. '91 "Stereophile." The thing that sets this review apart from others is that the author, Larry Greenhill, is a ham. He mentions using the tuner for DXing and he does some side-by-side comparing of it to such tuners as the Magnum/Dynalab "Etude." Both seemed to perform about the same, incidentally, but the Etude is much less expensive; the Day-Sequiera lists at \$4800, or \$12,800 with an optional "FM Reference Analyzer," which I gather is an oscilloscope-type display. Bob emphasized in the article that "connectors and coaxial cables in any home tuner installation [should be] in superb shape. Poor antenna feeds can completely defeat a powerful rooftop antenna and a top FM tuner with a supersensitive RF section." The review failed to mention how immune that tuner might be to overload from strong local stations, but it did credit the "FM Atlas" as "handy" for showing the stations.

Bill Nienajadly sent word that WZZV 95.7 Olyphant PA is on the air, op, but not known if stereo. Similarly, WDNO 95.3 Laurel DE is on with stereo and "varied lame format." Lame "denotes soft rock/AC stations with overplayed selections and poor presentations. I personally have not been using that term for a while, but others are using it more and more. I'm off the hook on that one! . . . What is your opinion of the 110 kHz filters?" [So far I have only tried one in a G-E Superadio, and could not tell if there was improvement or not; stations are not as close to each other here in the Midwest as they are in the N.E.—b.e.] Andy Bolin sent Bill a seven-page write-up on his phase box, which he sells for \$145. "I must say that price seems kind of expensive, but he does have a money back guarantee on it, so I just might go for it." A teenager in Trenton NJ reports being bothered by radio playing through his braces; Bill speculates it might be WKXW 101.5. Other questions about stations having stereo or not—WRAV 94.5 Ravena NY, WKBE 100.5 Warrensburg NY, WTTT 96.1 Margate City NJ? Gerry Turro's Pomona NY 94.3 translator now has WBAB 102.3 Babylon NY, no longer Z-100. Rich Shafton visited Bill and had 110 kHz filters installed in his JVC receiver, GE Superadio and Pioneer Supertuner III car radio. "He didn't notice any deterioration of sound quality and overall selectivity is much better. . . He had 150s in all the units before. He said he had the Philly adjacents driving in the Bronx!"

WRJT Monterey TN now on 106.9, reports Doug Smith, and he says WUTC \*88.1 Chattanooga does some of its own programming—not always relaying in stereo the signal of WUOT \*91.9 Knoxville. He tried but failed to log Bahamas 104.5 on a recent trip because of FL stations on 104.3 and 104.7. "Heard KA2XXE 107.9 Columbia. Mono, pretty good signal for a considerable stretch of I-75. Columbia isn't on most maps; I thought it was down by Orlando, but your map in the Atlas showed it wasn't as good DX as I thought!"

Harry Helms says he doubts there will be a fourth edition of the book he has done with Hank Bennett, "The Complete Shortwave Listener's Handbook." I wrote him because I wanted my chapter revised if a new edition should be published. "Congratulations on the success of your 'FM Atlas'! Much deserved!" he writes.

Bruce Hall: "Pleasure to meet you for the first time at Dunkirk for the convention. Have enjoyed my little Cool Cube radio with SCS. I use it at work while at my desk. My car radio is certainly a lot sharper after Bill Nienajadly transplanted the .150 filter, although I primarily DX at home." He sent an article on a tourist attraction in Brantford ON, Icomm, which is on a fundraiser to furnish and equip with interactive displays—a "science centre, demonstrating the impact of communications and information technology on our daily lives."

Now, until I get a chance to analyze more data that have poured in, this is it until next month. Look below for "See Also," culled from December's VUD.

## See Also December VUD For

IN Austria WJAA 96.3 Stereo, ID with Seymour, Strobel, p. 13  
NY Alfred WETO \*90.9 now Stereo; s, Nieman, p. 12  
NY Buffalo WGRF 96.9 still "Rock 97," but I list "97 Rock" (not "Rock 97") as the noID for WRRK Braddock PA, "Station News," p. 10  
WUFX 103.3 rp, "Station News," p. 11  
NY Loudonville WVCN \*88.3 Stereo (back to; was mono for a long time), p. Nieman, p. 12  
OH Ada WONB \*94.9 \$, op, "Rock 95," Strobel, p. 13  
OK Moore KMSI \*88.1 ID with Oklahoma City, Buntin, p. 15; also it has [stereo]  
TX Robstown KLUX \*89.5 list as b, Strobel, p. 13  
TV character generators for identifying translators (p. 27, Smith). I'd like to find out how a DXer might acquire the decoder to tune in those elusive IDs; I understand some FM translators are also thusly identified. Any hints about building or buying such units to sleuth out the translator IDs?

## Format Changes

*Formats are the same as in the "FM Atlas"*

AL Northport WLXY 100.7 m  
AL Ozark WQLS 103.9 m  
AR Mountain Home KKTZ 107.5 o  
AR Stamps KZHE 100.5 k, getting an extension of time to move from 100.1  
AR Walnut Ridge KRLW-FM 106.3 k  
CA Fresno KSKS 93.7 k, "Kiss Country"  
CA Imperial KBGD 99.3 Spanish, I  
CA Mendocino KMFB 92.7 o  
CA Ontario KRZE-FM 93.5 e, losses stereo, parallel to KFOX 93.5 Redondo Beach  
CA San Luis Obispo KZDZ 93.3 p, but the market "might be considered the lame radio capital of the West. Stations at 98.1, 99.7, 101.3 and 107.3 fall into this category."  
CA Tracy KSGO 100.9 o [no stereo]  
CO Castle Rock KYBG-FM 92.1 nt, news/sports, / CO Snowmass Village KSN-O-FM 103.9 r, same as on KYYY 98.3 Gunnison and KIDN-FM 95.9 Hayden  
FL Key West WKRY 93.5 rp  
FL Ocala WVFQ 92.9 m  
FL Pompano Beach WMXJ 102.7 o  
FL Starke WEAG-FM 106.3 m  
GA Cairo WSLF 102.3 m, "Whistle"  
GA Dock Junction WXMK 105.9 r, CHR  
GA Hinesville WSKX 92.3 \$, \$, "92 Jams" (from "92 Kicks")  
GA Macon WAYS 99.1 o, still "99 Ways"



On Air (Selected)

GA Milledgeville WLRR 100.7 r, \$, no "Light Rock" (is AC/oldies)  
 GA Springfield WQXT 103.9 k  
 HI Honolulu KHFX 105.1 o, entering a time sales  
 LA with KOMO-FM 93.1 and AM and  
 KP01 97.5, under the umbrella, "Radio  
 Marketing Associates"  
 ID Caldwell KBXL 94.1 mr, "X-94"  
 ID New Plymouth KZMG 93.1, still "Magic 93"  
 ID Payette KQXR 100.3 r, "Power 100" (from  
 "Q-100")  
 IL Harrisburg WOOZ 99.9 o, ID with Carbondale  
 IN Austin WJAA 96.3 r  
 IN Indianapolis WHHH 96.3 r, "Hoosier Hot 96"  
 IN Rensselaer WLQI 97.7 r, "Q-98"  
 KS Baxter Springs KQOQ 107.1 o, "Oldies 107,"  
 ID with Pittsburg  
 KY Greenville WWHK 105.5 rp  
 KY Irvine WCYO 106.1 k  
 KY Lancaster WKFS-FM 104.9 k  
 KY Wickliffe WKGY 95.9 op, SMN classic rock  
 LA New Orleans WRNO-FM 99.5 still p, but  
 dropping Z-Rock days. "Perhaps the arrival  
 of WZRH 106.1 has something to do with the  
 change. I've been told by someone who  
 claims to know the owner personally that  
 WRNO-FM has been up for sale (so has the  
 short wave)."  
 ME Dexter WGUW 102.1 o  
 ME Madison WHAA 97.5 o  
 MD Federalburg WQMR 107.1 r, "Power 107"  
 MA Harwich Port WFXR 93.5 mr  
 MA Hyannis WCOD 106.1 m, "Gold/AC"  
 MA West Yarmouth WXTK nt, monophonic,  
 remove \$ listing  
 MI Cadillac WCKC 107.1 k, "KC Country," ID  
 with Traverse City. Programmed and iden-  
 tified with WMKC 102.9 St. Ignace MI.  
 MI Hart WXTT 105.3 m  
 MI Tuscola WGMZ 101.7 k, local marketing  
 agreement (LMA) with WKMF 1470 AM  
 Flint  
 MN Fergus Falls KJJK-FM 96.5 m  
 MN Grand Rapids KMFY 96.9 m  
 MN Park Rapids KDKK 97.5 o, uses stars, not  
 "StarStation 97.5"  
 MN Still River Falls KSRQ "90.1 rp  
 MS Ellisville WJXX 102.5 o, joint programming  
 with WKNZ 101.7 Collins  
 MO Savannah KQJX 93.2 r, "B-93 Jamz"  
 MO Warrenton KFAB 99.9 r, "V-100"  
 MT Livingston KYBS 97.5 k  
 NE Lincoln KFMO-FM 101.9 r. KLMS AM  
 1480 now KFMO (AM) and simulcasting.  
 KMXX 106.3 k, \$, "The New Mix 106." For "a  
 day and a half 'The Blaze' with heavy metal,  
 then b. What a surprise!"  
 NE McCook KZMC 105.3 rp  
 NE York KTMX 104.9 m  
 NH Lisbon WLTN-FM 96.7 o  
 NM Alamogordo KZZX 105.3 k, moving from  
 105.5  
 NM Hobbs KZOR 94.1 m  
 NM Los Lunas KZPY 106.3 kr  
 NY Cobleskill WSHQ 103.5 m  
 NY Danville WACZ 93.9 m  
 NY Hudson Falls WENU 101.7 mr  
 NY New Rochelle WRTN 93.5 mp, with "heavy  
 metal" Saturday nights and Sunday mornings;  
 also Spanish late weekend nights  
 NY Peru WXLU "88.3 c, \$  
 NC Clinton WMSX 107.1 r  
 NC Goldsboro WEQR 102.3 m  
 NC Lenoir WHLQ 102.5 k  
 ND Fargo KFGO-FM 101.9 k, "New Country  
 102" (strict), with official ID at :55 ("Magic  
 102" rubbed out)  
 OH Bowling Green WRON 93.5 o, "Oldies 93.5"  
 OH Canton WHBC-FM 94.1 o  
 OH Columbus WBNS-FM 97.1 o, "Oldies 97.1"  
 OH Geneva WDON 104.9 o  
 OH Oberlin WBOC "91.5 rp  
 OK Oklahoma City KKGK 92.5 m  
 OK Weatherford KWEY-FM 97.3 k, "Y-97"  
 OR Hermiston KQFM 99.3 m  
 OR Hood River KCBG 105.5 r, SMN

PA Danville WPGM-FM "96.7 g, not gr  
 PA Harrisburg WIMX-FM 99.3 o, now simulcast  
 by AM  
 PA Jersey Shore WRKK 97.7 op, no "Hot FM,"  
 now saying "Rock 97.7" with calls  
 PA Lancaster WNCE 101.3 mr  
 PA Millersville WIXQ "91.7 p, \$, but temporarily  
 off the air due to Student Center renovations.  
 It "was cheated out of a large chunk of its  
 eastern York and northern Lancaster County  
 listenership. The station that caused this  
 interference: WJAZ "91.7 Summerdale/  
 Harrisburg. I find it hard to believe WJAZ is  
 operating with only 250 watts. Their signal is  
 incredible! I could get them in my car as far  
 away as Shippensburg to the west. And when  
 WIXQ is off the air I could get them fairly  
 strong in the parking lot of the Student  
 Center at Millersville University. . . It seems  
 ludicrous why someone chose to put those  
 stations on these frequencies. . . Were these  
 stations victims of bad frequency searches or  
 is there something here I don't understand?"  
 [Also mentioned: WDCV "88.3 Carlisle being  
 cheated out of its Harrisburg area listeners  
 because of WVEC "88.3 Elizabethtown.]  
 PA Renovo WMHU 93.1 r, "WKHL," but now  
 silent.  
 PA Saladsburg WKHL-FM 95.5 (and AM 1190  
 in Hughesville) most recently r, and dropping  
 "Kool Radio," but now silent. "Radio must  
 be in a parlous state in our area."  
 PA Starview WHTF 92.7 op, ID with York-  
 Lancaster (not with Harrisburg), "Starview  
 92.7"  
 SC Moncks Corner WJYQ 105.5 m, "My 105"  
 (loses "Joy 105.5 FM")  
 SD Redfield KQKD-FM 103.7 kr, \$  
 TN Centerville WNKX-FM 96.7 k, "Kicks 96.7"  
 TN Memphis WYPL "89.3 t, reading to the blind,  
 fulltime, main carrier, no SCS. This station  
 replaces WLYX which deletes. WYPL plans  
 stereo, but it may be pseudo-stereo, since no  
 music is broadcast.  
 TX Corpus Christi KMXR 93.9 r  
 TX Edinburg KBFM 104.1 rs, "Hot B-104"  
 (from "B-104")  
 TX Kilgore KTKX-FM 96.1 op  
 TX Killean KBTS 93.3 r, "B-93 Jamz"  
 TX Lubbock KKKI 93.7 g, LMA with noncom-  
 mercial KAMY "90.1  
 TX Mount Pleasant KPXI 100.7 k, "K-100"  
 (from "TX-101"). "Sixth format this year  
 (AC, AOR, top 40-rock, top 40, AC,  
 country)" still "Magic 105"  
 TX Robstown KMIQ 105.1 sr, no Spanish,  
 TX San Antonio KISS-FM 99.5 and AM still o,  
 but entering an LMA with KSMG 105.3,  
 "Magic 105," o, Seguin-San Antonio. Look  
 for a common positioning statement to  
 emerge. (uses calls, "KXOX 96.7")  
 TX Sweetwater KXOX-FM 96.7 o, SMN Kool,  
 VA Farmville WFLO-FM 95.7 m  
 VA Harrisonburg WMRA "90.7 cj  
 VA Radford WRIO 101.7 k, "Q-102"  
 VA Rural Retreat WCRF-FM 95.3 m  
 VA Suffolk WFOG 92.9 mr  
 WA Everett KSER "90.7 pt, "always stereo . . .  
 was only mono once or twice while getting  
 the bugs out of their new transmitter."  
 WA Seattle KNDD 107.7 rp, "107.7 The End"  
 (strict). "Just the station Seattle's been  
 waiting for. It's different from any other  
 station. I'm sure glad they dropped their AC  
 format, as there are too many in Seattle."  
 WV Milton WAEZ 106.3 o, SMN Pure  
 WI Green Bay WPNE-FM "89.3 cj, \$  
 WGBW "91.5 tj  
 WI Menomonie WVSS "90.7 cj, \$  
 WI Plymouth WXER 104.5 m, "Extra EZ  
 Rock" [98, WAEQ, "no "98-Q"  
 Rice Lake WAQE 97.7 m, uses calls, "Great"  
 WI Watertown WJJO 94.1 rp, "New tower,  
 Deerfield WI, basically calls itself a Madison  
 station—ignoring Watertown."

LA Jennings KJEF-FM 92.9 C2, from 92.7A  
 MI Bloomfield Hills WBHF "88.1, now on with  
 360 hz; 55 m, d-a, "with decent stereo"

Off Air—Or Not Yet On

CA Groy City KWCD 107.3  
 FL Beverly Hills WPD5 97.1  
 FL Newberry WNFQ 100.5  
 GA Omega WOBX 107.5  
 IL Kankakee WTKC "91.1  
 IN Bloomfield WBHQ 101.1  
 IN Clinton WPNL "93.9  
 IN Ellettsville WZGY 105.1  
 IN Knox WUVX "89.3  
 IN Salem WDHM 97.9  
 IN West Lafayette WBAA-FM 101.3  
 IN Winamac WOTD 100.1  
 LA Folsom KGCZ 104.9  
 MI Novi WGOV "89.5  
 MI Oak Park WOPR "90.3  
 OH Lorain WKNZ "89.1  
 PA McConnellburg WEMX 103.7  
 PA Sharpville WAXF 95.9  
 TN Manchester WFTZ 101.5 [to 94.9  
 TX Canadian KRBB 103.1, preparing to move/  
 VA Culpeper WPPB "89.9  
 VA Hot Springs WBHA 107.1  
 VA Waynesboro WPA "90.1  
 WV Phillipi WQAB "91.3  
 WV Pocahontas WTUN 98.7  
 WV White Sulphur Springs WXMD 93.3  
 WI Brillion WEZR 107.5  
 WI Brookfield WRIT 106.9  
 WI Lomira WFOL 106.7  
 WI Mayville WVMW 98.7  
 WI Mishicot WTRW-FM 94.7  
 WI New Holstein KFKQ 93.1  
 WI Tomah WBOG 96.1

Deletions

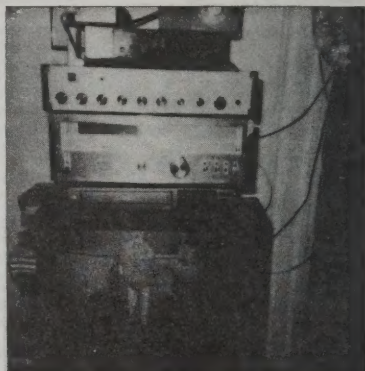
AL Huntsville W292CD 106.3, per station  
 request [WLYX 100.7 Northport  
 AL Tuscaloosa W261AD 100.1, because of new/  
 AK Bethel KBTB 98.3  
 AR Marianna KVNZ 106.9, an unbuild CP  
 GA Sparta WHAN 102.7, an unbuild CP  
 IL Oregon WFLW 106.1, CP forfeited  
 KS Downs KWNL 94.1  
 MI Hancock WTHV 98.7, CP forfeited  
 MN Roseau KRMB 102.3, CP forfeited  
 ND Wishek KMVC 100.3, CP forfeited  
 OK Lahoma KGPD 95.7, an unbuild CP  
 PA Camp Hill W285AF 104.9—was once licensed  
 PA Carlisle W220AH "91.9, displaced by WJAZ  
 PA Harrisburg W211AA "90.1  
 PA Millersburg W215AA "90.9  
 TN Memphis WLYX "89.3—equipment given to  
 WYPL 89.3  
 UT Richfield KYAY 97.5  
 VA Lawrenceville WHFD "91.7  
 WI Sturtevant WZXA 104.7  
 PQ Kawachikamak CFNM 89.3  
 "I'll be traveling soon and send you any info I  
 hear along the way. Love the Atlas and  
 FMedial"

SCS Services, 67, 92, 102.271 kHz

Symbols are as in the "FM Atlas"

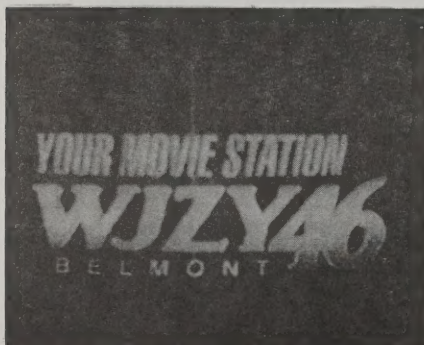
AR Conway KMJX 105.1 no tY, 92  
 CA Pasadena KPCC "89.3 tE, 67, RSI, Radio  
 Sadeya Iran; Filipino 92  
 CA San Diego KSDS "88.3 no tY, 92  
 KCBO-FM 105.3 tE, 67, Farsi 91.9  
 CA San Francisco: "We are on SCS [KALW  
 "91.7], but would like to buy an FM station.  
 What do they cost? . . . With FM stations so  
 expensive, what about AM?" I suggested he  
 consider running an AM station along with an  
 existing SCS. That way, current listeners  
 wouldn't be alienated and the SCS could fill  
 in coverage gaps if a lower-powered AM were  
 acquired, which might go directional or  
 reduce power at night.]

Bill Nienajadly - Clifton, New Jersey is our first reporter for 1992. Bill sent in a foto of his DX set-up. From top to bottom; on left is his Winegard AC-4990 power supply, next to that is a Radio Shack rotor control. Next is a Teknika TVC22 TV tuner. Below that a Fanon PRO 120 public address audio amp for his Pioneer TX-9800 FM tuner. Bill modified with (2) 180khz & (3) 150khz IF filters. For recording his TV DX he has a Emerson VCR model 765. All this is setting on a Samsung color TV; on screen is "channel 22 from Annapolis MD under normal troposcatter conditions at 189 miles! My farthest viewable TV station under near dead conditions!" Not seen; Radio Shack U-120 UHF antenna and one of their 6 element FM antennae + 10db postamp.

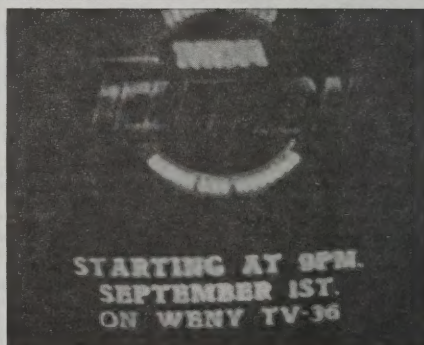


Just a short drive down the Garden State Parkway is Joe Fela's South Plainfield, NJ home, yes the one with the Antennacraft P-7 dish & Winegard PA-4975 preamp on the roof. That must be Joe at the controls of his G.E. color monitor. As he goes thru the channels we can see:

WCNC-36  
Charlotte North Carolina  
516 mile tropo  
seen August 26 1991  
at 0558 EDT



WJZY-46  
Belmont North Carolina  
515 mile tropo  
seen August 26 1991  
at 0559 EDT



WENY-36  
Elmira New York  
157 mile tropo  
seen August 27 1991  
at 0715 EDT

"not long, but this one doesn't make it down here too often via true tropo"

DAVE



# EASTERN TV-DX

Bill Nienajadly  
PO Box 2999  
Clifton NJ 07015-2999  
1-201-478-3044

JANUARY 1992

3 Month log cutoff

deadline 2/5/92

Happy New Year everyone! Lets look forward to 1992 with hope of much DX and other goodies. In the meantime, this column is still dealing with 1991 and there is DX to report out there ...where? How about December E-skip! As Im typing up this column on 12/6/91 I have heard about super bang up opening late November & on Dec 1st. Hopefully we'll get some reports on those dates which I heard happened in the South with a MUF at 108+. In the Northeast there was one opening on Dec 2nd with a MUF of ch 6+. Rich Shafan of NJ logged ch 2 Denton TX on 12/2.

Jeff Falconer Box 63 Clinton ON N6M 1L0

Icom R7000, 25 el log periodic @ 25 ft with rotor ALL TROPO LOGGINGS

8/25 0428 WBNS 10 OH 263  
0429 WEHS 60 IL 334  
0433 WTVT 18 WI 324  
0436 WHME 46 IN 275  
0452 WHMB 40 IN 353  
0457 CIII-27 ON 166  
0501 WKOT 43 IN 326

8/25 0521 WGN 9 IL 333  
8/30 0116 WANE 15 IN 256  
8/31 0211 WISAM MI 214  
// to WHME-46  
0213 WTVT 18 WI 324  
0215 WNDU 16 IN 277  
0225 WJLT 58 WI 324

11/17 1200 WXIN 59 IN 353  
1201 WHME 46 IN 275  
1203 WGBA 26 WI 327  
1223 WFLA 39 IN 256  
1225 WPTA 21 IN 256  
1229 WANE 15 IN 256

11/17 1230 WHMB 40 IN 353  
OVER Local CBLN  
1231 WJSV 28 IN 276  
1254 WLF1 18 IN 344  
1258 WOSU 34 OH 249  
1300 WFYI 20 IN 352

An above average Tr opening for November and that's been it. Only one new TV logging via ES this season! 73, Jeff

Ed Phelps Rt 2 Box 266 Benton KY

ALL TROPO LOGGINGS

(Phoned into ETV-DX-BN)

11/22 WAIQ 26 AL 330 WBIQ 10 AL 248 WCQI 7 AL 273 WGIQ 43 AL 390 WALB 10 GA 458- all in evening via tropo

Also Atlanta, Huntsville, Birmingham

Total Stations 444

**2 WORCS**

(Editor corrections, WPSD is on ch 6 not channel FIVE, as I stated last month. Sorry about that.-BN)

Tom Bryant 849 Todd Preis Dr Nashville TN 37221

ALL TROPO IN NOVEMBER 1991

13 0026 WCUI 26 IL 405	13 0030 WYCC 20 IL 407	14 WBRC x1tr Anniston	22 2354 WHOA 32 AL 255
WFLD 32 IL 407	0041 WPMR 50 IL 405	22 1841 WLIQ 41 AL 259	23 0101 WCOV 20 AL 257
0027 WNSN 44 IL 407	14 0059 W29AD AL 173	2322 WXXV 25 MS 385	23 0133 WELF 23 GA 155 TENT

The only relogs are stuff that I don't normally get: for example, the 3 repeats from Chicago on 11/13. That was an unusual duct with no other IL, WI, or Northern IN activity. At the same time, almost all Northern AL, MS and GA regulars were good to s/f. (Selective ducting-BN). The new P-5 parabolic continues to turn in exceptional performance. Hope 1992 is a Happy DX New Year for all WIFDA'ers! Tom (Tom did a great job with the WIFDA Convention Video tape-BN)

Jeff Wolf 1131 University Blvd. W Apt 701 Silver Spring MD 20902

Dayton 12" B & W, UHF- Radio Shack 4 Bay, twin lead bowtie, 15-1104 VHF UHF amp (used for UHF only) VHF: Radio Shack rabbit ears 15-235 all directions/ VHF channels, Building's VHF antenna North East direction only, for channels 2,3,4,5,8,9,10,11,13

Eric Voytko wrote that the UNID-2 I saw on 8/11/91 could possibly be KTVI. Thanks Eric,

**WLMW2**

8/1 Tr 2010 WSET 13 VA  
8/5 Tr 0751 WQEX 16 PA  
8/7 Tr 0028 WABAA WV  
0117-0300 NC 16  
WYED-17,22,40, 13+  
VA WSET-13,29  
GW 0743 WDC-A 20 off  
until 1905  
Tr 0746 SC 15 gd-vgd  
NC 11,22  
0800 UNID 20

8/7 0810 to 0929 SC 19  
Charlotte 18,36,46  
Tr 1000 WJPR 21 VA  
8/15 Tr 1016+WQEX 16 NC  
8/17 OR 0659 RI 64 +  
WJIG 55, NC 45  
NYC 41, CT 53?, 30  
8/22 Tr 0949 UNID 17z  
10/1 GW 1905 WYVN 60 WV  
Martinsburg Fox 1st day  
on the air

10/1 Tr 1946 CCI 0 W/60  
10/19 Tr 0208 NC 16-s/off  
0238 NC 28-s/off  
0300 NC 40-s/off  
0327 NC 40 3/4 ch  
0613 WPD 15 SC  
0828 WAOH VA  
(ACTS)  
0916 WUNJ 39 NC  
10/24 Tr 0538 WPD 15 SC  
10/25 Tr 0559 WRDC 28 NC

10/25 Tr 0559 New calls  
was WPTF now  
it is WRDC  
11/6 ES 2200 KJRH 2 OK  
MUF 3  
11/8 AU 1840-1930 ch 2 cci  
11/21 ES 2208 2+,z  
11/29 ES 1920 2z, - +  
12/2 ES 1800 KOET 3 OK  
KFDC 3 TX  
1830 KBTX 3 TX

William R. Hepburn 35 Lockwood Rd Brampton ON L6Y 4T7 -JVC HR-D630U VCR w/indoor VHF dipole & UHF 4-bay

Oct 91

Nov 91

ALL TROPO LOGGINGS

18 2315 CBOT5 33 ON 148  
McArthur Mills  
w/CBC Ottawa

17 2228 WCMU 14 MI 250  
ME Pleasant  
2236 WSMH 66 MI 205  
Flint-Saginaw  
Bay City s/off 0105

17 2347 CKCO4 11 ON 119  
Muskoka-Haliburton  
video only w/CHCH  
//CKCO 13

18 0040 WQMI 17 MI 295  
Grand Rapids  
s/off 0203

1000 CJOH 13(PQ) 225  
Ottawa ON-Hull w/CKCO

Dude From Joisey PO Box 2999 Clifton NJ 07015-2999

12/2 ES 1800 MUF FM?...12/8 ES MUF 4 @ 1700, 12/9 ES 1700 MUF 2 weak! gone by 1745, 12/12 Tropo to the South 200 mi.

# WESTERN TV-DX

January 1992

Fred McCormack  
Box 17860  
St. Paul MN 55117-7860

Deadline: 02-06-92  
Cut-off: 11-01-91

November produced an unusual amount of E skip as well as F2. E skip was reported on November 5, 7, 9, 10, 22, 24, 28, 29 and 30. F2 was reported on October 29 and November 8, 9, and 19 by Dyer. Some nice tropo was also caught, particularly by Draeb.

CORRECTION TO LAST MONTH'S CORRECTIONS - This distance from Bill Draeb's house to CHS-J-4 is 1067 miles, not 1230 miles or 1350 miles. I hope I got it right this time!

New\_\_\_\_ New Mode\_\_ Tent. - t Unidentified - unid S/On - + S/off - =  
ID Color Bars - @ Unid Color Bars - % Misc. Test Patterns - &  
Parallel Programming - // MTS Stereo - \$

William Draeb, Ellis St., Rt. #2, Kewaunee WI 54216 (414-388-2350)

CST

Local WPNE-38 was off the air from November 9-14. I talked to someone who works for the station, part time, at UWGB and he said the "transmission line fried." About 800' of transmission line (from the transmitter to the 800' level) had to be replaced.

November 1991		17 tr 0230	WYTV 33 OH 420	22 tr 1828	WDKY 56 KY 480
13 tr 1730	KXLI 41 MN 310	0545	WNEO 45 OH 405		( See Note # 3 )
	(HSC)		WEAO 49 OH 380		WMSY 52 VA 605
	KSAX 42 MN 374	0554	WFMJ 21 OH 420		WKYT 27 KY 473
	W48-- 48 ??		WPGH 53 PA 480		WLEX 18 KY 473
	(// WHWC-28)	0724	Cincinnati Us400	1840	WYTV 33 OH 420
2122	Iron Mtn Us 100	0725	WKON 52 KY 437		WKBN 27 OH 420
	Lac du Flambeau		WDRB 41(IN) 437	1841	WQEXT 16 PA
	Us 155	0908	WKRC 12 OH 400		WPTTt 22 PA
16 tr 1741	KXLI 41 MN 310	1632	CBLN 40 ON 325		WDRB 41(IN) 437
	KSAX 42 MN 385		CICO18 18 ON 325		WPBO 42 OH 461
	KRWF 43 MN 395		CBFLT9 53 ON 325	1848	WWATt 53 OH
1751	KVRR 15(MN) 450		WKBN 27 OH 420		WPGHT 53 PA
	K58BS 58 MN 285		CIII29 29 ON 290		CBFLT9 53 ON 325
	(Minneapolis TBN)		(Diag. CCI-WGTU)		WFLT 53 TN
1945	Central IL Us	1729	WUHQ 41 MI 165		CBLN 40 ON 325
	(Snow free)		(With WOTV news)		CBLN4 45 ON 307
	WEIU 51 IL 345	19 tr 2032	KXLI 41 MN 310		CBFLT17 68 ON265
	KAWB 22 MN 365		KSAX 42 MN 385		CITY2 31 ON 350
	W57AR 57 WI 145	21 tr 1955	W40AK 40 MI 110		WJET 24 PA 405
	(Sayner WSAW- 7)		(Muskegon CHA)		CICO18t 18 ON
	W45AJ 45 IL 165		( See Note # 1 )		WNED 17 NY 445
	(Rockford CHA)	22 tr 1828	WSBN 47 VA 580		WOSU 34 OH 395
2035	WKEF 22 OH 365		( See Note # 2 )	1916	WHME 46 IN 210
	( Over WSBT-22 )		WENT 39 TN 635		( See Note # 4 )
	WCET 48 OH 400		(Snow free)		WKPT 19 TN 620
	WKON 52 KY 437		WIII 64 OH 400	1923	WSFJ 51 OH 395
	WIII 64 OH 400		W25AI 25 OH 400		unid channel 51
	WCVN 54 KY 407		(Cincinnati CHA)		( See Note # 5 )
2115	WTVQ 36 KY 473		WCET 48 OH 400	1930	WGGN 52 OH 315
	WKLE 46 KY 473		WCVN 54 KY 407	2023	WKLE 46 KY 473
	WXIX 19(OH) 400		WKON 52 KY 437	2103	WGRBt 34 KY
	KVRR 15(MN) 500		WNEO 45 OH 405		( See Note # 6 )
	(Stronger)		WTVQ 36 KY 473	24 Es 1900	WPBTt 2 FL
	KAWB 22 MN 365		WYMT 57 KY 550		WTVJt 4 FL
	( KAWB-KAWE ID )		WKSO 29 KY 520		WEDU 3 FL 1192
2150	Mpls 17,23,29		WKHA 35 KY 550		unid channel 5
	(Not in earlier)				

Note # 1 - Live "TV BINGO"; station off frequency slightly. Had to adjust horizontal hold to lock in picture.

Note # 2 - "Blue Ridge Public Television" - snow free - ID slide with WBRA-15, WBSN-47, WMSY-52.

Note # 3 - No sign of WYIN-56 or WJYS-62.

Note # 4 - Carrying WNDU-16 weather delayed about one half hour.

Note # 5 - Same direction as WSFJ; zero offset to WSFJ.

Note # 6 - Rain getting heavier; DX falling: mostly gone at 2230.



John Ebeling, 6843 County Road 47, Albion MN 55702 (218-345-6718)

CDT/CST

Equipment:

General Electric 19EC0740W (1980) - electronic tuning (no fine tuning).  
Antennas in the attic - one pointed south towards Minneapolis/St. Paul and the other aimed southeast towards Duluth - selection via knife switch. Neither antenna is a DX type.

September 1991

1 Es 0003 CFCN 4 AB 1010  
unids chs 2-6  
0035 CKKX 2 AB 1015

2 Es 0100 CKKX 2 AB 1015  
(In until 0135 )  
8 Es 0830 unid channel 2

November 1991

29 Es 1800 unids chs 2-3  
KPRC 2 TX 1215

Pat Dyer, 5315 Silvertip Drive, San Antonio TX 78228-2744

CST

Equipment:

KTV 12" 1210A b&w, Archer V-100 and 8-bay bow-tie UHF array at 20 feet with rotor.

October 1991

1 Es 1958 WSAV 3 GA 1040  
2036 WWAY 3 NC 1235  
14 tr 0729 KADN 15 LA 385  
0755 K21DM 21 LA 395  
(Lafayette VJN)  
0759 WLPB 27 LA 445  
18 tr 0004 KLAX 31 LA 385  
0102 KBMT 12 TX 285  
0959 WVLA 33 LA 440  
20 Es 1128 WCBF 2 SC 1140  
1159 WWAY 3 NC 1235  
29 F2 0834-0942 unids ch 2  
1716-1833 unids ch 2

November 1991

5 Es 1458 WSAZ 3 WV 1125  
1600 WSJK 2 TN 1010  
1616 WBTV 3 NC 1090  
WFTV 2 NC 1175  
7 Es 0928 KDLO 3 SD 1070  
0929 KUSD 2 SD 945  
8 F2 1849-2020 unids ch 2  
2315-0000 unids ch 2  
9 F2 0000-0045 unids ch 2  
Es 0230 WPBT 2 FL 1150  
1557 KOTA 3 SD 1040  
1651 KTWO 2 WY 1010  
1700 KXMA 2 ND 1215

9 Es 1949 XHBC 3 BN 1025  
2059 KUTV 2 UT 1085  
2154 KVBC 3 NV 1050  
2155 KTVK 3 AZ 835  
19 F2 0925-1054 unids ch 2  
1110-1122 unids ch 2  
1635-1700 unids ch 2  
22 Es 1142 KGAN 2 IA 960  
28 Es 1653 KDLO 3 SD 1070  
1659 KGFE 2 ND 1290  
30 Es 1801 KGAN 2 IA 960  
1825 WCIA 3 IL 930

A fair amount of E skip in October-November. K21DM had a jukebox format - and lucky to get with local 20 LPTV and other channel 23.

The big news was, of course, the F2 events. Many minutes of these were caught with the VCR. A 4-head machine and some video processing software might be able to extract a lot more.

The November 8-9 events were due to the severe magnetic storm. The two later episodes there had "pulsing" effects, perhaps indicating some TE involvement.  
73, Pat, WA5IYX

Dave Sinclair, 6565 Brooks Street, Vancouver BC V5S 3J6

PDT/PST

Equipment:

Archer antennas: VHF-FM model 15-8654 on Channel Master Crown rotor 5 feet above roof. UHF model U-120 10 feet above roof. Archer amplifier model 15-1113, adj. 10-20 dB. Both mounted on separate chimneys (straps). Electrohome VCR VHS, Sony colour TV model RV1215, Philips converter model CT3600 which has separate inputs for cable, VHF and UHF, stereo.

October 1991

9 Es 2130 \$KVBC 3 NV 996  
10 tr 2100 K6BDL 68 WA 111  
(Seattle TAB)  
K53AZ 53 WA 185  
(Centralia KIRO- 7)

14 tr 0200 KBSP 22 OR 288  
(KTZZ-22 off)  
19 tr 0300 \$KATU 2 OR 252  
(CBUT- 2 off)  
20 tr 0400 KATU 2 OR 252  
(CBUT- 2 off)

November 1991

8 tr 1500 K47-- 47 WA  
(Unknown KOMO- 4)  
10 Es 0715 \$KVBC 3 NV 996  
28 tr 1700 LPDX 4S OR 252  
: ae Note)

Note - Received with Knowledge Network rebroadcaster off air due to storm.

Channel three received over CBUT-2 rebroadcaster at Chilliwack, British Columbia, 56 miles east, 590 watts erp. This rebroadcaster stays on all night with a colour bar and is fed by CBC North.

Best wishes for 1992 to all!

Thanks to all who reported in 1991. Good Luck in 1992 and keep reporting!

# NORTHERN FM-DX

GREG CONIGLIO  
5100 GLENWOOD DRIVE  
WILLIAMSVILLE, NY 14221

For DXers in: MA, NH, VT, CT, MA, RI, NY, PA, NJ, OH, MI, IN, IL, WI, MN, IA, NE, SD, ND, MT, WY, ID, WA, OR, AK, Canada  
JANUARY 1992 → DEADLINE: The 5th → LOG CUTOFF: 2 months from when mailed

Not much to report this time, not much trop, though there was some surprise e-skip early in November, and there has been plenty of aurora. Let's hear from you! One note: The CCI-Unids column is now done by Matt Sittel. Please send your unIDs to his column instead of here. I am glad to see that column back; I know many enjoy that column. Happy New Year!!

## 1991 E-skip report.

The top 20 e-skip openings in 1991

\*note: The late season opening in November is not included.

Reports taken from Northern and Southern FM DX

DATE	TOTAL	rep	avg	MUF	high
1.JULY 1	491	28	17.54	144	64
2.JULY 19	442	27	16.37	209	43
3.MAY 29	272	29	9.38	107.9	30
4.JUNE 3	159	7	22.71	108.5	52
5.JULY 30	144	12	12.00	107.7	38
6.JULY 8	143	10	14.30	107.9	38
7.JULY 18	142	16	8.88	144	36
8.JULY 31	122	11	11.09	107.9	32
9.JUNE 29	116	15	7.73	106.1	20
10.AUGUST 23	113	9	12.56	107.9	26
11.JULY 20	111	16	6.94	107.5	25
12.JULY 2	100	13	7.69	107.5	24
13.MAY 19	93	5	18.60	108.3	42
14.JUNE 12	78	5	15.60	105.9	25
15.JUNE 30	66	11	6.00	103.3	13
16.JUNE 20	63	9	7.00	105.5	13
17.JUNE 8	60	14	4.29	107.7	28
18.MAY 20	37	4	9.25	107.3	20
19.JUNE 16	37	9	4.11	107.3	8
20.JULY 22	33	10	3.30	97.1	8
TOTAL (60 days) 3298		avg of 54.97 reports per skip opening, average MUF: 106.0 Mhz			

### Key:

total = total number of loggings reported that day

rep = number of DXers reporting noting skip that day

avg = average number of loggings per DXer that day (total ÷ rep)

MUF = maximum useable frequency reported that day

high = most loggings reported by a single reporter that day

### Breakdown by month:

	no of days	total for month	avg
JULY	18	1828	101.56
MAY	9	483	53.67
JUNE	22	782	35.55
AUGUST	8	199	24.88
SEPTEMBER	3	6	2.00

(There have been some October and November openings not counted here)

### Breakdown of MUFs:

	no. openings	percent reaching this level
up to 108.0 +	5	8.33%
up to 107.9	10	16.67%
up to 105.1	32	53.33%
up to 100.1	40	66.67%
up to 98.5	44	73.33%
up to 96.1	52	86.67%
up to 92.1	58	96.67%
up to 90.1	60	100.00%



# Happy New Year

STEVE SOLOMON - 2 BENNETT WAY #24 - NEWMARKET, NH 03857 (603) 659-3470

Equipment: Yamaha TX-9300 tuner with 2 180 khz filters, ALL loggings are new.

## JULY 1991

2 Es  
1000 KXXL 92.9 ND Grand Forks  
1035 WOW 94.1 NE Omaha, country  
1037 KXLP 93.1 MN New Ulm, AOR o/WMGX  
1042 KDWZ 93.3 IA Des Moines, CHR, Z-93  
1045 KTSB 93.9 IA Sioux Center  
1047 KSWB 98.7 MN Moorehead, Q98, AOR  
1100 KTCZ 97.1 MN Minneapolis, Cities FM  
1100 KISD 98.7 MN Pipestone, Sat. CHR  
1124 KXRA 92.3 MN Alexandria, AC  
1135 KKCK 99.7 MN Marshall, AC  
1159 KSDN 94.1 SD Aberdeen, AC

4 Tr  
0115 CFGL 105.7 PQ Laval, WVBF off the air  
0121 WHMX 105.7 ME Lincoln, Hot Mix 106  
CHR, WVBF off the air  
0128 WWKX 106.3 RI Woonsocket, Kicks 106  
CHR-dance, over everything

5 Es  
1035 WOVV 95.5 FL Ft. Pierce, CHR  
1057 KWNC 96.5 SD Sioux Falls  
1057 WHTQ 96.5 FL Orlando, Q96, AOR  
1120 WWLV 94.5 FL Daytona Beach, Love 94

5 Tr  
1145 WCIB 101.1 MA Falmouth, Lite 102,  
ac, heard over WPOR  
1146 WQRC 99.9 MA Barnstable, beautiful

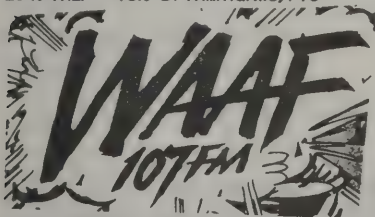
8 Es  
1032 WOMC 104.3 MI Detroit, oldies, during  
thunderstorms

1100 WKYQ 93.3 KY Paducah, country

21 Tr  
0317 WRKJ 95.1 CT Brookfield, AOR, I-95  
tight squeeze (WHOM & WCQL?-gc)  
0330 CKMF 94.3 PQ Montreal, CHR, Star 94  
is off the air, French

0350 WQGN 105.5 CT Groton, WJYY off the  
air, Q105, CHR

30 Tr  
0000 WMDK 92.1 NH Peterborough, AC  
2340 WBLQ 99.3 RI Block Island, AC  
2343 WILI 98.3 CT Willimantic, I-98



**STATION NEWS:** In Pittsburgh, 104.7 is now religious, and was heard as WORD. Thanks Dave Nieman. Over in Eastern Pennsylvania, WAEB-FM Allentown (104.1) is still top 40, but it now using the slogan "B104", dropping "Lazer 104.1". In that general area, WJRZ 100.1 Manahawkin changes to a classic hits format. In the Albany area, WRAY Ravena (94.5) is on the air with an adult contemporary format, "Mix 94." Thanks Bill Nienajady. Other NJ news: WTTW Margate City (96.1) is on the air, urban adult contemporary. Thanks Bob Smolarek.

## AUGUST 1991 DX

11 Es  
1143 WLLZ 98.7 MI Detroit, Detroit's Wheels  
AOR, only 640 miles  
The following logged in car in Exeter, NH  
1325 WXBW 102.7 FL Milton  
1330 WAPW 99.7 GA Atlanta, Power 99, CHR  
1335 WFOX 97.1 GA Gainesville, Fox 97, ac  
1340 WAFX 95.1 AL Prattville, The Fox, AOR  
1349 WSKZ 106.5 TN Chattanooga, KZ 106.5  
1358 WZZK 104.7 AL Birmingham, country  
1425 WVRV 105.1 TN Waverly, V-105, country  
1430 unid 105.3 "The All New Q-105.3"

15 Tr  
2315 WKSS 95.7 CT Hartford, Kiss 95.7, CHR  
and dance, WZID off the air

16 Tr 0300 WYHT  
105.3 OH Mansfield, Y-105, CHR

26 Tr  
0129 CFRQ 104.3 NS Halifax  
0140 CFQM 103.9 NB Moncton  
0152 CBH 102.7 NS Halifax, divers.  
0155 WBAZ 101.7 NY Southold, Lite on the Bay  
0200 WFAL 101.1 MA Falmouth, F-101, sat CHR  
0211 CIOO 100.1 NS Halifax, C-100, AOR  
0300 WCME 96.7 ME Boothbay Harbor,  
country over WWEM

0313 WWMJ 95.7 ME Ellsworth, oldies o/WZID  
0324 WPBC 92.9 ME Bangor

## SEPTEMBER 1991 DX

10 Tr  
0324 WFME 94.7 NJ Newark, Family Radio  
0324 WRKS 98.7 NY New York, 98.7 Kiss FM

11 Tr  
1431 CIOO 99.7 PQ St. Georges de Beauce  
Country, French

17 Tr  
2334 WQHT 97.1 NY New York, dance-CHR

19 Tr  
0005 WEBE 107.9 CT Westport, Wee Bee 108  
adult contemporary, over WKXS

23 Tr  
0040 WPKX 97.9 CT Enfield, Kicks 97.9,  
country, WWGT off the air

30 Tr  
0100 WMKS 93.5 VT Springfield, Kiss 93.5  
satellite adult contemporary

## OCTOBER 1991 DX

1 Tr  
0010 WTSL 92.3 NH Hanover, ac  
0100 WRD 99.3 NH Hanover, AOR

10 Tr  
0200 CFCA 105.3 ON Kitchener, easy, 490 mil.

DAVE NIEMAN-12284 NICE RD-AKRON NY 14001-9529

Equipment: Carver TX-11 modified IF, CM Stereo Probe 9 at 30'. Alliance HD-73 rotor and RG-11 coax. New call [K K K K].

NOVEMBER 1991 DX3 troposcatter

1349 WAFX 106.9 VA Suffolk, "106.9 THE FOX" 442  
op\$

5 troposcatter

0821 WRVL 88.3 VA Lynchburg, ID, g\$ 394  
Is WBYN new or format change? Dave

19 troposcatter

1000 [WORD] 104.7 PA Pittsburgh, ID, g\$ 197  
ex. WEZE, WYDD & WPGH.

DECEMBER 1991 DX2 troposcatter

1409 WBYN 107.5 ?? ????, call, g\$ ???

Delaware County's

1st

Radio Station



Box 58

Walton, NY 13856

(607) 865-4321

DAVE NIEMAN-HO STA GEH RD-ROCK CITY NY

Equipment: Technics ST-8080 modified IF. Antennacraft FM-10 at 15'. Radio Shack rotor, RG-6 coax. All new to Rock City log.

NOVEMBER 1991 DX17 tropo

1105 CKNX 101.7 ON Wingham, "FM-102", r\$ 183

30 tropo&scatter

1600 WAER 88.3 NY Syracuse, ID, j\$ 134  
(WSBU off)

2028 WNFA 88.3 MI Port Huron, call, g\$ 209  
(WSBU off)

DECEMBER 1991 DX1 troposcatter

0233 WJMO 92.3 OH Cleveland Heights, "Jammin -92", s\$, (WRRN off) 154

0259 WRKT 100.9 PA Northeast, "Rocket-101" r \$, (WMXO off) 73

0321 CFLY 98.3 ON Kingston, "FLY-FM", rm \$, (WQRT off) 183

Dave

WILLIAM R. HEPBURN - 35 LOCKWOOD RD - BRAMPTON ON L6Y 4I7 (EST)

Equipment: modified JVC R-X330U w/indoor dipoles

NOVEMBER 19911 AU

1756 unids (10-15 db)

B AU

2100 WPLM 99.1 MA Plymouth T  
(calls tent. heard)

2114 WMYX 99.1 WI Milwaukee 415  
(10 db, state # 20)

2121 WYLL 106.7 IL Des Plaines 430

2355 unid 94.7 USA ?? T  
(SRN, Star Radio Network, 10 db)

9 AU

0002 WRVL 88.3 VA Lynchburg 445  
(state # 21)

0029 CJMV 102.7 PQ Val-D'Or (FF) 325

10 TR

1254 WONE 97.5 OH Akron- 190  
Cleveland-Canton

19 TR

2341 WFMK 99.1 MI East Lansing- 245  
GrandLedge-Lansing

Comments: More Auroral DX! More garbling. More noise. More tests of patience. Much like trying to understand what someone 300 feet away is saying...challenging but fun.

73g, Bill.

**STATION NEWS:** A new regional satellite network has been established in the Northeast U.S., called NESN: North East Satellite Network. Programming is adult contemporary and in the evenings. So far these FM stations have reportedly signed on: WWSE 93.3 Jamestown, WKPK 105.3 Hornell, WFLR 95.9 Dundee, WVOS 95.9 Liberty, WENY 92.7 Elmira, WTOJ 103.1 Carthage, WKGW 104.3 Utica (all in New York State). WDNO 95.3 Laurel, Md. is now on the air...WROU 92.1 West Carrollton (Dayton), Ohio is expected on soon with an urban format, "U92" Speaking of Carrollton, WKFK 100.5 (Michigan) is expected to go to top 40, WTCF, "The Fox". WTRV 94.3 is // WAIR 92.5 in Upper Michigan, oldies.



# NORTHERN FM DX

JANUARY 1992

JERRY MONROE - 3135 FALLS ROAD - MARCELLUS, NEW YORK 13108

Equipment: JVC tuner (two 110 khz IF filters), 10 ele FM yagi, Various other antennas, traps, filters amplifiers, etc!

## SEPTEMBER 1991 DX

5 Tr

1500 CKAT 101.9 ON North Bay, on car radio  
1800 CFRC 101.9 ON Kingston, car radio again solid signal.

18 Tr

2030 WPAC 92.7 NY Ogdensburg, the real hits"  
2035 WYUT 92.7 NY Herkimer not on the air!  
2155 WKOJ 92.7 NY Middletown, "92.7 KOJ"  
Hard rock, tough reception

## OCTOBER 1991 DX

2 Tr

0445 unID 88.9, who is this all night BBC mono signal? (Jerry, I think I read somewhere that Auburn does this. Can anyone confirm?-gc)

7 Trs

1200 WAWZ 99.1 NJ Zarepath, wx for Cent. NJ  
8 Trs  
1040 WPLR 99.1 CT New Haven, PLR, Bowie

# WNJA FM 89.7

Well, seasons greetings to all, hope conditions were good during the holidays. The week of October 26 to November 2 was loaded with trip activity. October 30th CIXK 106.5 Owen Sound, Ont. was in perfect on my 20 mile drive to work: not bad for 225 miles. The combination of snow in the west and a "nor-easter" off of New England brought one of the best Indian summers here in recent memory. Still planning on building a rhombic before the ground freezes, all I need is some free time! 105.9 brought a new state (Maine), though I still am confused on the call. (They are WKRH, not WIGY anymore-gc). the KRH DJ gave out a 800 number, so I called him and asked where he was. He said Dallas, Texas; this surprised me unless I had E-skip off the back side, then he said he was on a satellite network and yes they feed a station in Maine. A later ID said WKRH Maine's Classic Rock. I'll take it. One last note: 100.9 WEZG claiming to be twice the power, now t.kwl. 73s Jerry

DOUG SMITH - 14 BROOKSIDE COURT - NASHVILLE, TENNESSEE 37209-4503

Equipment: Sony ICF-2010, whip antenna, DXing in New England (where?-gc)

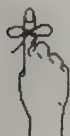
## OCTOBER 1991 DX

23 Tr

Stations heard at ~ 2300

WHJY 94.1 RI Providence 145  
WSRS 96.1 MA Worcester 135  
WNTX 96.3 MA Nantucket 200  
WCTK 98.1 MA New Bedford 145  
WPLM 99.1 MA Plymouth 180  
WWRX 103.7 RI Westerly 115  
WFCC 107.5 MA Chatham 210  
WRIU 90.3 RI Kingston, 3.4 kW 130  
WSNE 93.3 MA Taunton 145  
WAAF 107.3 MA Worcester 135  
WVBF 105.7 MA Framingham 155  
WCRB 102.5 MA Waltham 155

WCDJ 96.9 MA Boston 155  
WBRU 95.5 RI Providence 145  
WXKS 107.9 MA Medford 145  
WHUS 91.7 CT Storrs, 3.2 kW 95  
WROR 98.5 MA Boston 155  
(calls are now WBMX-gc)  
WBCN 104.1 MA Boston 155  
WMJX 106.7 MA Boston 155  
WSSH 99.5 MA Lowell 155  
WFPG 96.9 NJ Atlantic City 135  
WKTU 98.3 NJ Ocean City, 3 KW 135  
24 Tr (from car on I-84) ~0800 from Middletown, NY  
WJBR 99.5 DE Wilmington 130  
~0830 from Port Jervis, NY  
WDRC 102.9 CT Hartford 105



DON'T FORGET TO SEND IN YOUR DX!

2330+ Areas to the Southwest in  
Boston 100 db All Class B's in.  
Norfolk Va, Eastern Shore MD,  
Hurlock 100.9 MD & New London CT  
100.9 fighting it out, WYFI 99.7  
WOLC 102.5 + many, many others.  
WHOM 94.9 Mt Washington NH also  
in with steady tropo.  
Providence RI, New Bedford + other  
Eastern New England FM stations.

Heard a POLKA music program on Sunday morning @ 0730+ on 98.1 Oct 27..any ideas?

I couldn't come home to DX right away, so DXed on the car radio and found.....  
 ....WKSZ 100.3 Media PA, WSKR 102.7 Petersburg NJ tent with CNN news and sports....  
 ....WIYY 97.9 Baltimore MD, WWSH 97.9 Hazleton PA, UNID 97.9 Country Enfield CT?  
 ....105.1 Country music Ephrata PA assumed, Batlimore 102.7 "V-103" Some of these  
 I could have counted in the Clifton log as these were heard 8 to 11 miles from my  
 Clifton QTH but my personal mileage for counting anything in the Clifton log is a  
 approx FIVE miles, club rules say 25 miles radius is countable but I feel better  
 with the FIVE mile limit.

12/14/91 2000+ Very good Tropo/scatter, it was really a combination of both. I heard CHTZ 97.7 St catharines ON at 310 miles, WVOR 100.5 Rochester NY 235 miles, at 2200+ rarely heard WGBI 101.3 Scranton PA (rare do to strong WKCI CT off the back), WPEL 96.5 Montrose PA, WKRZ 98.5 Scranton PA, WDNH 95.3 doing real nice here, WKGB 92.5 way over WXTU in fact WKGB was there for a hour or so, WVOS 95.9 Liberty NY strong for a while (rare), WDDL 104.9 Scranton PA only the second time I heard them, WHWK 98.1 Binghamton NY, 2250 Very rare WPCX 106.9 Auburn NY (near Syracuse), A bit later into the midnite hour I heard WDBA 107.3 DuBois PA at 249 miles along with Utica 107.3 and I did hear some MS bursts on 107.3. Overall, not no blockbuster opening by far but rather a chance to hear some rare or otherwise very weak stations at very good strength.

I did notice that the 94.3 translator in Pomona NY is now relaying WBAB 102.3 now. Bill Nollman tells me Digikey is all sold out with the 110 and the 150 khz filters and it will be a 14 week wait again for them. I knew this would happen. Oh Well

The Mod Delco digital is excellent with the TWO 110's, sound kHz quality is OK. Went to Joe Fela's house where I modified his GE Superadio with one 110 kHz filter. He bought out another GE Superadio which I modified months earlier with a 150 kHz filter. We compared both Superadios and the one with the 110 filter dug out Baltimore 106.5 and Wash. DC 107.3 where as the 150 kHz Superadio could barely get, I should mention we were using a whip antenna for this comparison test, tropes were up a bit too. At Joes house, in my car we checked out the selectivity of my Delco car radio. He seemed impressed that the Delco in the car using the window antenna could get stations like 94.9 Harrisburg PA (WFME 94.7 is so wide that 94.9 is usually covered up even on modified radios) Also WXXM 99.7 from Central PA, WVOR 100.5 Rochester with WRCH 100.5 CT, All adjacents were in the clear with no adj channel interference, DC, Balt,adj's all perfect, By now you should get the idea how well the 110 filters work. Joe lives 2 dozen miles from NYC were I live only a dozen miles from NYC, so the Delco did perform better there. Those who haven't yet gone on to modify your car radio, by all means do! Find out what you are missing! Gooding! A



**NORTHERN FM DX****JANUARY 1992****SAUL CHERNOS - P.O. BOX 611 - ORILLIA, ONTARIO CANADA L3V 6K5****From Orillia****JULY 22, 1991 Es**

1800 KECA? 89.3 "KECA in the Capitol City"

**AUGUST 1991 DX**

17 Tr (CIBC off)

0130 WNNR 103.5 NY Sodas, rp

22 Tr

0757 WJWA 89.7 NY Jamestown, // WNED 94.5

25 Tr

0953 WFMK 99.1 MI E.Lansing

1036 CITE1 102.7 PQ Sherbrooke, French

1040 WBLV 90.3 MI Twin Lakes

**SEPTEMBER 30 Aurora**

1649 WDSD 94.7 DE Dover

**From Burnt River****July 31 E-skip**

1852 WJIS 88.1 FL Bradenton

**AUGUST 1991 DX**

13 Tr

1645 CJMJ 100.3 ON Ottawa, New Magic 100

1700 CJMV 102.7 PQ Val D'Or

**OCTOBER 14 Tr**

0643 WSNM 99.3 NY Potsdam

14 MS

0723 KEBC 94.7 OK Oklahoma City

94 Country KEBC

23 Tr (WBSU off)

0200 WCID 89.1 NY Friendship

0713 WJWA 89.7 NY Jamestown, // WNED 94.5

24 Tr

0456 WJSL 90.3 NY Houghton, g

0600 CHUO 89.1 ON Ottawa

25 Tr

1523 WNYP 99.9 NY Cortland, Power 99.9, rp

1536 WCPZ 102.7 OH Sandusky

1958 WFRO 99.1 OH Fremont

2000 WAAL 99.1 NY Binghamton

2230 WEMU 89.1 MI Ypsilanti

2307 WTVG 97.7 MI Sandusky

2327 CHIK 98.9 PQ Quebec City, Radio

Mutuel Network ID, French

Not a season to write home about. Es had tunnel vision to Florida and summer and early fall tropo has stunk. Delaware a new state in Orillia, though had same station on Tropo in May at Burnt River. The French station during July 20 Es really intrigues me. Florida, Louisiana, or Caribbean? (Could it have been 88.7? I think I have seen reports of KRVS Lafayette being French once in awhile-gc). I doubt Quebec. WGMX calls heard on 94.3 same date, and references to FL Keys, so they were not yet on 94.7. CJMJ is operating in Ottawa, and so is CHUO, which can be heard in Ottawa, though on a fade-in and out kind of basis. Its programming is French and English and it's run out of the University of Ottawa. I strongly suspect Quebec City on Aug 25, but there's a remote possibility that the freq. was 99.1 (I haven't digital readout and 99.3 and 98.7 are strong enough that what's in between often is hard to determine. 73s, Saul

**GEORGE GREENE - 1527 SUNSET AVENUE - AKRON, OHIO 44301**

Equipment: McIntosh MR78 tuner, Stereo Probe 9 approx 35' above ground, new are underlined

**OCTOBER 1991 DX**

30 Tr

2048 CBFF1 103.1 ON Leamington, French prog.,

by carefully nulling CIQM London...was easier to hear on the car radio that night!

2300 CJXY 95.3 ON Hamilton, classic rock, Y-95

numerous other re-logs from western NY to eastern MI that night with very good signals.

Noted severe aurora cx on Friday the 8th while driving across northern OH/IN (not to mention a great visual display of the Northern Lights, too)—FM reception very poor that evening w/nothing of note heard. BIG cold front went thru here on 11/1 and temps and cx haven't been the same since, heh. 73.

**BOB SMOLAREK - 156 OLDWICK ROAD - WHITEHOUSE ST, NEW JERSEY 08889**

Equipment: McIntosh MR78, Carver TX-11, Stereo Probe 9

**SEPTEMBER 1991 DX**

30 Tr

2300 WSKR 102.7 NJ Petersburg, all sports

**NOVEMBER 1991 DX**

8 AU

1915 WBPR 97.7 SC Georgetown, r, Power 98

1920 WKZO 101.7 SC Myrtle Beach, rp

1925 WXYL 102.5 SC N.Charleston, o

1935 WVES 99.3 VA Accomac, b

14 Tr

2100 WPGM 96.7 PA Danville, g

2200 WKSJ 102.7 PA Williamsport, r

**OCTOBER 1991 DX**

31 Tr

0038 WXTA 97.9 PA Edinboro, country music

0040 CJBC4 99.3 ON London, more French CBC

0041 CFGX 99.9 ON Sarnia, a/c, "The Fox"

**NOVEMBER 1991 DX**

0028 WWHT 105.7 OH Marysville, "Hot 105" urban CHR music right through local WMJI!

**November 18 Tr**

2000 WTHH 96.1 NJ Margate City, s

2015 WKSJ 102.7 PA Williamsport, r  
again over WNEW!!

Comments: November 8th produced the first aurora that I was able to identify, thanks to Bill Nienajadly for the tipoff. I was hoping to hit 1,000 stations heard by the end of the summer but the lousy E-skip season ended that wish. I'm at 941 now.

73s Bob.

DEBRUCE HALL - 5 STIRTON AVE. - BRANTFORD, ONTARIO CANADA N3T 1E2

Equipment: IVC JRS 201 receiver (mod with 3 150 khz filters), Magnum Dynalok 265 Sleuth, Probe 9 fed with RG6 at 50 feet AGL, Crown rotor, Distances are in kilometres

## SEPTEMBER 1991 DX

27 MS  
0807 WCOW 97.1 WA Sparta, k, local ad heard with Wisconsin meat, followed by calls 902

28 TrS  
0855 WWSR 102.7 WV Charleston, r, Super 102 after local ad, Bob & Josh of Morning Zoo 541

30 TrS  
0759 WWCX 105.5 MI Flint, r, CK 105.5 after ad for U of Mich Berlin "Take My Breath Away" 288

## OCTOBER 1991 DX

1 TrS  
0721 CFBK 105.5 ON Huntsville, rm, Birthday messages, time check, Lenny Kravitz music 265

2 TrS  
0746 WWKS 106.7 PA Beaver Falls, r, Kiss 106, "Adult Rock Hits all the time", followed by BST mx "Spinning Wheel", format change? 267

0800 WWYN 106.9 TN McKenzie, k, Win 107, local ny with ment of 3 Jackson youth 687

7 GW  
0715 CINJ 107.9 ON Burlington, rs, Dance 108 new nonID from Monday to Saturday 35

9 MS/TrS  
0720 WJLQ 99.1 VA Roanoke, r, Q99, nonID 655  
0802 WJLX 99.1 WI Milwaukee, legal ID Traffic report 633

10 MS  
0801 WPLR 99.1 CT New Haven, pr, Rock 99 calls head, relog from 11/18/90 MS log 602

## OCTOBER 1991 DX

13 MS  
0800 WAWZ 99.1 NJ Zarepath, g, "Committed to bring you — we are 99.1 WAWZ Zarepath NJ" 506

18 MS  
0729 KDEA 99.1 LA New Iberia, nr, y/l with calls, former E-skip, 6/12/90 1817

20 MS/Tr  
0833 WHCM 99.1 WV Parkersburg, k, Power Country 99, mention 25,000 watts power 460

1001 WHKO 99.1 OH Dayton, k, K99, Continuous Country Favourites K99FM 515

22 TrS  
1934 (WMJT) 100.9 MI Piconning-Saginaw, rm Magic 101 after music by Stevie Wonder 322

24 TrS  
0803 WKYS 93.9 DC Washington, rs, 93KYS 552

25 TrS  
0745 WFCB 94.3 OH Chillicothe, r, B94, local ad for Papa Dions Pizza, B94 heard 483

26 TrS  
08:08 WDSD 94.7 DE Dover, k, "Hey! Where are you calling from? Newark, Georgetown, Princeton, NJ, it's now easier to get thru on our toll free line 1-800-955-WDSD, call us anytime" 598

27 TrS  
0718 WELK 94.7 WV Elkins, r, NEW K95, station promo for bumper stickers at local business 475

Happy Holidays, Merry DX Mas, 73dB

## MARK STRICKER - 852 N. OCONTO - CHICAGO, ILLINOIS 60634

88.3 WYAV is on, heard on the way south 10/31, with odd mix (metal, R & B, jazz). Signal not great anywhere, but it does get out to the south and west all right. Yes, Elveng, it's S. Stopped at 95th and Cicero (1.5 miles from station) to record a side on my way home 11/5.

88.9 WARG Summit (Argo H.S.)—keeping more regular late hours this year—even caught at home after WRRG signoff. Has a variety of rock. WYTH 88.1 more eclectic among local high schools this fall.

94.7 WYTZ - add to the "FM happenings caused by AM" file. sister WLS 890 had been out-rating them, so dropped the hits and started simulcasting the talk?!? May or may not officially be WLS-FM now... was still legally WYTZ after a week of yap and I can't stand them to check, hi.

95.9 WKKD-FM Aurora—is getting strange, almost like they're evolving into an ez listening or even "new age"? Mixed in instrumentals, no accidentally as they promote it, that are often jazz-like or even the ethereal "new age".

Side note = Almost everyone has mistakenly called the jazz-night at stations new age, stations like WNUA, KTWV, KKSE, WOCD, WNWV, etc. Far as I know, NO commercial stations in the US play real true "new age" music except maybe for the two-hour syndicated "Musical Star-Streams" program, a commercial version of "Music from the Hearts of Space" on Sunday nights or like time period.

96.7 WLLI Joliet - shifted to familiar album oldies (aka "classic rock") seems like they flip-flopped satellite feeds with 105.5?

98.7 WENT - has been moving towards becoming, at least in part, a "listener sponsored" station. Strange move as they've been relatively profitable as full commercial classical, plus their main rival WNIB already relies on listener contributions and program guide subscriptions to make up for weak ad revenue, and the non-commercial stations that already actively seek listener money are hurting. (Visual - shrug of shoulders and look of bewilderment).

100.3 WPNT - with 94.7's lazy shift, WPNT becomes "the station most likely to change" has lost over 2/3's of audience from the ez WLOO days, and is known to be hurting from cash flow.

105.5 WAIT-FM Wodstock - switched to WZSR "Star 105.5", back to satellite medium-to-up AC (via Unistar?)



## MARK STRICKERT's comments continue.

Recent out of town news, maybe old by now but just in case... WESE now on 92.5 still ez (oh yeah ex 95.9 Baldwin, MS). 94.9 Holly Springs, MS not heard on. KYMO-FM East Prairie, MO (freq?) (105.3?-gc) heard on, with album oldies. WVUB 91.1 Vincennes, IN has ez listening during the day?!?! WEZW 103.7 Wauwatosa WI still trying to decide if they're ez or soft light ac - have heard blocks of both, and even jazz/ac mix on Sunday morning (trying for former WBZN listeners?). Slogan is "Easy 104" (with soft jingles), strict.

## JEFF FALCONER - BOX 63 - CLINTON, ONTARIO N0M 1L0

Equipment: Magnum Dynalab FT-101A, Probe 9 at 27' with rotor, RG-11u feed, Magnum Dynalab 205 preamp.

## AUGUST 1991 DX

## 25 Tr

0519 WRMM 101.3 NY Rochester, rm\$  
Warm 103.3 198  
0523 WVAZ 102.7 IL Oak Park, rm\$, V103 335  
0612 WUSN 99.5 IL Chicago, k\$ 335  
0633 WEFM 95.9 IN Michigan City, b\$,  
We-FM, tough in shallow CFPL null 311  
1207 unID 96.7 rm\$, The all new Hot 96 Licks FM  
1238 WLYY 101.7 MI Lansing, ro\$, Y-102 159

## OCTOBER 1991

## 16 GW

1825[CJXY] 95.3 ON Hamilton, op\$, Y-95  
ex CKDS 90

## NOVEMBER 1991

## 8 Au: Aindex 35/Index 6

2156 WSHW 99.7 IN Frankfort, ro, ID 345

## 9 Au: Aindex 101/Index 81

0325 WZOK 97.5 IN Rockford, r, ZOK 400

0400 WASH 97.1 DC Washington, m, ID 394

## 16 MS

1532 KKYK 103.7 AR Little Rock, "...in  
Little Rocks"...center..." 848

## 17 Tr/TrS

0230 unID 93.5 ?? rp\$, The Voice

0249 WBCM 93.5 MI Boyne City, k\$, BCM 333

1131 WLS 94.7 IL Chicago, i\$ 333

1138 WLTQ 97.3 WI Milwaukee, Lite 97 324

1140 WUSN 99.5 IL Chicago, k\$, US99 333

## Nov. 17 DX continued

1142 [WPNT]100.3 IL Chicago, r\$, The  
Point, ex WXEZ 333

1151 WVAZ 102.7 IL Oak Park, ads, V103\$  
very strong q 335

1154 WJMK 104.3 IL Chicago, m\$, Magic 333

1159 WMRI 106.9 IN Marion, ID, ABC nx\$ 330

1213 WFMT 98.7 IL Chicago, c\$ 333

1214 WLUP 97.9 IL Chicago, r\$, Loop 333

1313 WNSN 101.5 IN South Bend, ads\$  
Sunny 101.5 277

1316 WDOR 93.9 WI Sturgeon Bay,  
Packers Football game 307

1323 WWKI 100.5 IN Kokomo, k\$,  
Hit Country 100.5 321

## 18 TrS

2154 WCZY 104.3 MI Mount Pleasant, \$ end  
of Pistons Basketball game into b music 165

22 TrS: " means the Probe 9 was phased into a  
log periodic antenna.

2151 WMSH 99.3\* MI Sturgis, r\$, CJBC4  
phased, ID 239

2252 [WKMF]101.7\* MI Tuscola, k\$, ID, ex  
WGMZ, CKNX phased 109

## 23 TrS

1305 WVCC101.7\* PA Linesville, bigband\$ ID  
CKNX phased out 158

## 24 MS

0424 KKYK 103.7 AR Little Rock, "...in  
Little Rock..." 848

A very intense aurora on November 8/9 reduced the band to hash. The Northern Lights put on a dandy display here. Threw together a crude phasing setup and have achieved encouraging results. I use a 13 element log periodic antenna and the Probe 9 fed into a Magnum Dynalab Signal Sleuth amplifier. The attenuator and tuning controls on the Signal Sleuth are then set for the best null on the offending signal. Reminds me of some of the phasing setups I have used for medium wave DX over the years. 73 Jeff

## dBRUCE HALL - 5 STIRTON AVE. BRANTFORD, ONTARIO CANADA N3T 1E2

Equipment: see Bruce's previous report appearing this month.

## NOVEMBER 1991 DX

## 1 Tr

0800 WTRV 94.3 MI Leland, ro // WAIR 92.5 km  
"Northern Michigan's Super Station", 506

## 5 MS

0732 WPUB 94.3 SC Camden, r, calls, mention  
of Columbia, SC weather 989

## 6 MS

0728 KAMO 94.3 AR Rogers, k, K-Mo 94 FM 1408

0801 WIFX 94.3 KY Jenkins, r, 94IFX 609

2200 WJCF 88.3 NH Nashua, calls. E-skip on  
TV, tried FM, and got my 33th state, but E-skip  
did not reach the FM. 692

BRUCE'S COMMENTS ARE ON THE NEXT PAGE.

## NOVEMBER 1991 DX

## 8 Tr

0755 WKSD 99.7 OH Paulding, Kiss 99.7, r km  
499

## 9 MS

0730 WAPW 99.7 GA Atlanta, rs, Power 99, lcl  
car ad, Highway 138, ph# request line 741-0097  
spoke to Paul to confirm ad. 500th catch!! 1104

## 10 GW

0905 [WGRF] 96.9 NY Buffalo, 97 Rock, r,  
"WGRF Buffalo, 97 Rock", ex: WGR-FM 115

## 18 MS

0705 KEGO 101.9 ND Fargo, Magic 102 KF....  
34th state

0717 WHHY 101.9 AL Montgomery, Y102 1311

## BRUCE HALL's comments.

Spent 7 hours monitoring different open frequencies for MS during Leonids shower. Major disappointment as far as number of bursts per hour. Snagged ND though; new state. I hope getting Geminids shower December 14 will produce more loggings. Other than MS, not much to report. Must be the time of year. Thanks to Sam Brown, UPI, caught some E-skip activity on TV. Thanks to Greg for helping to ID WLBT TV 3 Jackson, MS. Es didn't reach my FM dial! \$\*%@!#! Hope others are getting their share of DX. Happy New Year! 73dB  
(Bruce also sent along a brochure on a new museum forthcoming in Brantford called "icom", that will demonstrate various communication technology-gc)

Bill Nienajadly Po Box 2999 Clifton NJ 07015-2999

## November 23 Tropo to upper Hudson Valley

1700 WRAV 94.5 NY Ravena ID-----110  
1714 WQRZ 98.5 NY Catskill ID strong 110  
1719 WKBE 100.5 NY Warrensburg ID weak! 174  
1731 WENU 101.7 NY Hudson Falls ID, strong! 173

1733 WSSV 101.3 NY Stillwater ID-----161  
1735 WKLI 100.9 NY Albany ID finally!---142  
1743 WDST 100.1 NY Woodstock  
1747 Albany FM's way up & strong!

Four new stations in a half hour, not bad for a small tropo opening like this. Just before checking the conditions, I replaced my filter line up to 180-180-110-110-110 and this helped on my 100.9 which had some problems with the 180-180-150-150-150 set up. Since I don't expect any real good openings (except December MS & ES)... I'm going to concentrate on the Troposcatter mode, on frequencies like 100.9, 95.3. Goodxing! Bill

Also, thanks to both Bruce Elving and John Ebeling for setting me straight on my Minnesota UNIDs. Thanks to Harry Hayes who also set me straight on my WEBZ 99.3 question which did indeed turn out my WEBZ was WEBZ 99.3 Mexico Beach FL as he logged it too at the exact same time that I did. One other thing, WPRB 103.3 Princeton did increase their power and possibly their tower height, which Joe Fela says WPRB is supposedly on the WNJT-52 tower now. WPRB is heard here now a lot better now and could give me problems on E-Skip or tropo. I received a brochure on Andy Bolin's phase box, in it he goes into complete detail on the phase box and phasing in general, I found it really interesting. Im seriously considering getting a phase box. Goodxing!

## GREG CONIGLIO - 5100 GLENWOOD DR. - WILLIAMSVILLE, NEW YORK 14221

Equipment: Carver TX11 tuner modified with 150 khz filters, Stereo Probe 9 mounted on roof, CAC-11 and RG6 coax, Archer-rotor, rabbit ears with dials used with RS 0-10-20 db amp for phasing

## OCTOBER 1991 DX

## 18 Tr

1124 CITE 107.3 PQ Montreal, French m\$ 308

1130 CJFM 95.9 PQ Montreal, rs, new song by Genesis 308

1129 W285AD 104.9 NY Watertown, translator of WMHR 102.9 Syracuse, weak sig, g 153

2229 (CKLW) 93.9 ON Windsor, os, ex CKMR 29 Tr

0000 CBON 104.9 ON Gogama, FF mono 370

CJQM 104.3 ON Sault Ste. Marie, k\$ 363

CBCB 97.5 ON Little Current, CBC 259

0010 WHSB 107.7 MI Alpena, over local (WGLD) 105.1 MI Cheboygan, classic 274

105.1, ex: WGFM and WQLZ 343

**WERZ 107.1 FM**  
**WMYF 154.0**

## NOVEMBER 1991 DX

## 8 Au

1700 WVXU 91.7 OH Cincinnati, ID in car radio, only 2nd time heard via Au, and both times heard in car. Last time was in 1989, driving on Aurora Ave. (seriously!). Strongest Au I have heard, with possible exception of 3/13/89, but not many stations were readable. Nice visual display too.

## 9 Au

0000 WRDR 104.9 NJ Egg Harbor City, strong and unusually clear, big band music 330

## 28 TrS (DXing in Rochester, New York), ~1800

CITE 107.3 PQ Montreal, French over WRCK, m\$ 254

WHLM 106.5 PA Bloomsburg, several over WYRK 160

CING 107.9 ON Burlington, rs\$, Dance 108 heard over WRHP 112

WIRQ 94.3 was not noted on the air. None of the area CPs were noted on the air either.

This has been a horrendous season for tropo. Other than the two mediocre openings in October noted above, there has been next to no activity. September was completely lacking in any real opening. This is the exact opposite of last year, in which there were multiple 600+ mile openings. I have heard of several out of season Es openings, caught only one early in November, but the MUF was only channel 5. Thanks Bob Seybold and Bruce Hall for phone calls alerting me to that opening. Thanks to Mike Cherry, and Dave Nieman for sending logos. I received the convention video tape from Tom Bryant recently: just like last year Tom did an excellent job. And thanks to all who have contributed to Northern FM DX during 1991, by reporting, or sending in logos or special reports. I hope to hear from all of you more in 1992, and lets hear from some new people too!



# SOUTHERN · FM DX

Danny Buntin  
1312 N. Skyline  
Stillwater, OK 74075

JANUARY 1992

DEADLINE: 14th

SOUTHERN FM DX IS FOR REPORTERS FROM: AL, AR, AZ, CA, CO, DE, FL, GA, HI, KS, KY, LA, MD, MO, MS, NC, NM, NV, OK, SC, TN, TX, UT and also DC. Happy DXing in '92 and report soon!

REPORTS ON THE NOV. 8th AURORA AND SUBSEQUENT ES ARRIVE.

## SAN ANTONIO REPORTS IN.

Doug Allen, w2crs, P. O. Box 5646, Woodland Park, CO 80866

Equipt.: Onkyo T-4087 and various Pioneer tuners(all IF modified), FM-13 at 50 feet.

11/8 Au

1700 WNIN 88.3 IN Evansville, ID

1730 ???? 96.9 by turning antenna 5

different stations all mushy.

1800 KCEV 88.3 KS Wichita, new cl

1900 KJTY 88.1 KS Topeka, ID

2042 KZBQ 93.7 ID Pocatello, ID

2106 WPRE 94.3 WI Prairie de Chien, ID

2110 WKLP 96.9 IL Moline, 97-X

2131 KFMH 99.7 IA Muscatine, ID & "Iowa City"

2136 KKEZ 94.5 IA Fort Dodge, ID

2145 KHAK 98.1 IA Cedar Rapids, ID

11/9 Es

1735 KILT 94.5 TX Harlington, ads

1737 WKEU 97.7 GA Griffin, "Cool FM"

1745 XHAAA 93.1 MX Reynosa, SS

1746 KGNZ 88.1 TX Abilene, ID

1749 KKMJ 95.5 TX Austin, ID and

"Magic 95.5"

1754 KVMV 96.9 TX McAllen, g

1756 KMBHt 88.9 TX Harlington, local events

11/9 Es

1759 KBNR 88.3 TX Brownsville, ID

1801 XHNOEt 91.3 TA Nueva Laredo, SS

1802 ??? 97.1 ? SS

1804 WJIZ 96.3 GA Albany, ID

1806 KOYEt 94.9 TX Laredo, Y-95

1807 KHER 94.3 TX Crystal City, SS then

"KH-FM" in EE

1811 WOLt 107.3 AL Florence, 107-Q

1813 ??? 103.1 MS? mention of "Golden Triangle"

1815 WWUN 101.7 MS Clarksdale, ID

1817 WALX 100.9 AL Selma, ID & "Laser 101"

1822 WSYA 103.3 AL Montgomery, "Sunny 103"

1840 WTYY 95.5 AL Dothan, ads

1853 WABB 97.5 AL Mobile, ID

1855 WKSJ 94.9 AL Mobile, k, "95 KSJ"

1900 WJST 94.5 FL Port St. Joe, "rel ad for WJOE"

1907 KPOW? 98.7 ? "K-POW" ID

1915 WTYL 97.7 MS Tylertown, ID, "1290 AM"

1920 WXLt 94.1 MS McComb, "Sunny 94.1"

1934 WINK? 96.9 FL garbled ID & "sun coast

giant", double hop?

The band was loaded with aurora signals the evening of the 8th, but very difficult to copy any thing as several signals were competing on every open frequency and audio was very mushy, typical of auroral signals. I worked about 20 states on 144 mHz during the same period. The Es of the next day followed excellent 50 mHz F-skip to South America, New Zealand, Australia, and Japan, the latter three new for me on six meters.

A friend in Silver Lake, KS, Greg Cerny, has been DXing a lot recently. He has test equipment at work and offered to test and compare the Murata and Toko 150 kHz IF filters. I sent him 10 of mine, plus he already had quite a number of Murata and Toko filters. He says there's no comparison. The Murata filters have less insertion loss, a flatter bandwidth, steeper slopes, and are much closer to 10.7 mHz. Whereas almost all Murata filters are within 10 kHz of the 10.7 mHz specification, many Toko filters are 10 to 30 kHz off. From now on, I'm sticking to the Muratas! Greg also built up two 5 filter "super-duper IF amplifiers" described by Tim McVey in his "Technical Topics" Nov. 1990 VUD. Greg reports dramatic adjacent channel selectivity using one of them in his tuner. He sent me the other circuit board which I will install and report on next month. Belated Season Greetings, and a Happy New Year to all!

Keith D. Pugh, 227 Martin St., New Hope, AL 35760

Equipt.: McIntosh MR-78, Probe 9, RG-6 coax

10/17 trs

1258 WHTK 99.7 SC Port Royal, ID 350

11/1 ms

1250 KAWL 104.9 NE York, ID, prev. Es

tr

1251 WPKY 104.9 KY Princeton, r, ID

1253 WKYW 104.9 KY Frankfort, lc. ad

1255 WKHG 104.9 KY Leitchfield, ID

ms

1924 WKRY 93.5 FL Key West, prev. Es

11/6 trs

2152 WKLr 93.1 IN Indianapolis, o, ID 360

11/7 trs

2247 WFAE 90.7 NC Charlotte, c, ID 300

11/8 au (with Onkyo tuner)

1811 tune in, 30 db to 107.9, noise!

1838 KHHT 98.7 MO Springfield, 22db

1846 KWMU 90.7 MO St. Louis, prev. tr, 7db

1853 KGOO 99.9 NE Omaha, prev. Es, 14db

1920 25 db noise again, total f/out 1928

11/9 Es

1910 KSPK 102.3 CO Walsenburg, k, ID

1918 KSLV 95.3 CO Monte Vista, "V-95.3"

1921 KRTZ 98.7 CO Cortez, k, ads

1922 KWOX 101.3 CO Durango, r, ID

1930 KRSJ 100.5 CO Cortez, ads

1932 KRTN 94.3 NM Raton, nx

1941 KRWn 92.9 NM Farmington

cont.....

## SOUTHERN FM DX

Pugh, cont.

JANUARY 1992

11/9 Es

1959 KWKY 94.9 NM Aztec, r, ID  
 2004 KQNM 93.7 NM Gallop, "KQ-93"  
 2008 KNYN 95.5 NM Santa Fe, k, ID  
 2013 KMGH 93.9 AZ Flagstaff, ID  
 2016 KAFF 92.9 AZ Flagstaff, k, ID  
 2031 KUNM 89.9 NM Albuquerque  
 11/10 gw-tr (recent new FMs)

1700 WERO 104.5 TN Knoxville, Q-104, \$ 160  
 1800 WGOG 96.3 SC Walhalla, ID 180  
 1825 WJBZ 96.3 TN Seymore, g, \$, ID 170

11/27 tr

1300 WINL 98.5 AL Linden, k, Win-98, \$ 162  
 1308 WRXR 96.3 SC Aiken, rp(rare) 316

The au on 11/8 was much less audible than the very workable event in Mar. '89. At times this au was solid noise with no voice detected. Things got better as the au weakened, but was unable to ID much. The Onkyo T-9090 works better on au than the MR-78. In super narrow, the MR-78 has a hard time with the already distorted au, but you can always switch to narrow, and it will work just fine. It's just that the Onkyo is a bit more selective than the MR-78's narrow mode. Thanks to all who helped with unIDs over the past year. 73s.

Pat Dyer WA5IYX, 5315 Silvertip Dr., 78228-2744

June 1991 (CST)

2: (Es)

0800 WVPN 88.5 WV Charleston  
 1200 KLOZ 92.7 MO Eldon  
 1202 KDMG 103.3 IA Pella

3: (Es)

0726 WMHK 89.7 SC Columbia  
 0727 WHLZ 92.5 SC Manning  
 0731 WAAS 93.5 SC Columbia  
 0738 WKOD 98.7 NC Jacksonville  
 0746 WMXF- 96.5 NC Laurinburg  
 0747 WKML 95.7 NC Lumberton  
 0749 WAPW 99.7 GA Atlanta  
 0751 WZFX 99.1 NC Whiteville  
 0754 WPCB 94.9 GA Atlanta  
 0834 WFDD 88.5 NC Winston-Salem  
 0841 WNCW 88.7 NC Spindale  
 0859 WPMW 92.7 WV Mullens  
 0914 WHUB- 98.5 TN Cookeville  
 0919 WWLV 94.5 FL Daytona Beach  
 0924 WWKA 92.3 FL Orlando  
 0928 WHTQ 96.5 FL Orlando  
 0932 KHYS 98.5 TX Port Arthur (tr)  
 0953 WPAP 92.5 FL Panama City  
 0957 WQIK 99.1 FL Jacksonville  
 1001 WFSY 98.5 FL Panama City  
 1252 WTLG 88.3 FL Starke  
 1259 WJFR 88.7 FL Jacksonville  
 1315 WMNF 88.5 FL Tampa  
 1402 WNCM 88.1 FL Jacksonville  
 1406 WGMK 106.3 GA Donaldsonville  
 1408 WLYU 92.5 GA Lyons  
 1409 WVOH- 93.5 GA Hazlehurst  
 1411 WKXH 104.3 GA Alma  
 1412 WNCX-107.9 NC Greenville  
 1419 WHTK 99.7 SC Port Royal  
 1425 WXTG 96.9 SC Charleston  
 1428 WRNS 95.1 NC Kinston  
 1435 WTRD 96.9 NC Statesville  
 1436 WWSI 98.7 NC Greensboro  
 1440 WVBS- 99.9 NC Bursaw  
 1443 WWMY 94.5 NC Eden  
 1447 WTMQ 103.9 FL Key Largo  
 1456 WQSM 98.1 NC Fayetteville  
 1457 WCMQ- 92.3 FL Hialeah

11/17 tr

1402 WPEG 97.9 NC Concord, s, ID 320

11/27 tr

2332 KBFC 93.5 AR Forest City, ID 260

11/28 tr

1101 KLSA 90.7 LA Alexandria, ID 425

1105 WGRM 93.9 MS Greenwood, r, ID 250

12/2 Es

1547 WOW 94.1 NE Omaha, "wow FM"

1548 KEZO 92.3 NE Omaha, Z-92

1551 KNEH 94.7 NE Norfolk

1553 KLZU-93.5 ?? k, \$

1558 KPIN 92.1 MO Trenton, k, ID 540

1604 KRCS 93.1 SD Sturgis, k, ID

1547 WOW 94.1 NE Omaha, "wow FM"  
 1548 KEZO 92.3 NE Omaha, Z-92  
 1551 KNEH 94.7 NE Norfolk  
 1553 KLZU-93.5 ?? k, \$  
 1558 KPIN 92.1 MO Trenton, k, ID  
 1604 KRCS 93.1 SD Sturgis, k, ID

1504 WBUF 92.7 FL Marco  
 1517 WLVE 93.9 FL Miami Beach  
 1520 WNNH 92.5 NC Nass Head  
 1523 WZTA 94.9 FL Miami Beach  
 1527 WRMF 97.7 FL Palm Beach  
 1533 WKPX 88.5 FL Sunrise  
 1554 WKTC 96.9 NC Goldsboro  
 1617 WLHN 97.9 IN Anderson  
 2149 KYGO 98.5 CO Denver  
 2151 KTAK 93.9 WY Riverton  
 2153 KLZY 92.5 WY Powell

5: (Es)

1025 TG-- 88.5 Gua  
 1026 TG 88.1 Gua Guatemala City

6: (Es)

1759 KGNU 88.5 CO Boulder  
 1805 KTDB 89.7 NM Ramah  
 1809 KLZY 92.5 WY Powell  
 1820 KBPI 105.9 CO Denver  
 1833 KMGW 94.5 WY Casper  
 1835 KJVE 92.3 CO Grand Junction  
 1836 KDHT 92.5 CO Greeley  
 1855 KHOU- 95.7 CO Denver  
 1908 KKFM 96.5 CO Colorado Spgs  
 1911 KMTS 92.7 CO Glenwood Spgs  
 1914 KYCS 95.1 WY Rock Springs  
 1919 KRAI- 93.7 CO Craig  
 1933 KQSW 96.5 WY Rock Springs  
 2000 KSMT 102.3 CO Breckenridge  
 KRYT 107.9 CO Pueblo  
 2016 KRLN-103.9 CO Canon City  
 2020 KIMN 107.9 CO Fort Collins  
 2052 KCGY 95.1 WY Laramie

7: (Es)

0923 KRXT 98.5 TX Rockdale (tr)  
 0928 WRJA- 88.1 SC Sumter  
 1205 WMCU 89.7 FL Miami

9: (Es)

1815 WGNV 88.5 WI Milwaukee

12: (Es)

0612 KLZY 92.5 WY Powell  
 0618 KSBT 96.7 CO Steamboat Spgs  
 0619 KRDO- 95.1 CO Colorado Spgs



0620 KPBI 105.9 CO Denver  
 0621 KIL0 93.9 CO Colorado Spgs  
 0622 KSMT 102.3 CO Breckenridge  
 0623 KRYT 107.9 CO Pueblo  
 0629 K203AT 88.5 CO Westcliffe  
 0630 KSPK 102.3 CO Walsenburg  
 0640 KPRN 89.5 CO Grand Junction  
 0652 KQIX 93.1 CO Grand Junction  
 0655 KKEB 99.9 CO Grand Junction  
 0658 KJYE 92.3 CO Grand Junction  
 0701 KCIC 88.5 CO Grand Junction  
 0742 KZIQ- 92.7 CA Ridgecrest  
 0830 KKFR 92.3 AZ Glendale  
 0831 KDKB 93.3 AZ Mesa  
 0832 KOOL- 94.5 AZ Phoenix  
 0835 KMEO- 96.9 AZ Phoenix  
 WEOW 92.5 FL Key West  
 0839 KTEP 88.5 TX El Paso  
 0843 XHRM 92.5 BCN Tijuana  
 KJOK 93.1 AZ Yuma  
 0844 KTTI 95.1 AZ Yuma  
 0845 KQEZ 103.9 AZ Coolidge  
 XHNI 105.1 SON Nogales  
 0851 DUG 108.8 AZ Douglas  
 0926 KRCY 105.9 AZ Kingman

## (06-12-91:) (Es)

0939 KFSD 94.1 CA San Diego  
 0936 KMLE 107.9 AZ Chandler  
 KKLQ-106.5 CA San Diego  
 0940 KZLA 93.9 CA Los Angeles  
 KTWV 94.7 CA Los Angeles  
 0942 KBBY 95.1 CA Ventura  
 0944 KPWR 105.9 CA Los Angeles  
 0947 KCMJ- 92.7 CA Indio  
 0949 KQYN 95.7 CA 29 Palms  
 0951 KJLH 102.3 CA Compton  
 0952 KACE 103.9 CA Inglewood  
 0953 KKG0 105.1 CA Los Angeles  
 0956 KCDZ- 107.7 CA 29 Palms  
 0958 KWVE 107.9 CA San Clemente  
 1000 KKBT 92.3 CA Los Angeles  
 1001 KGB 101.5 CA San Diego  
 KCHV 93.7 CA Coachella  
 1009 KGMX 105.3 CA Lancaster  
 1011 KJUL 104.3 NV North Las Vegas  
 1014 KEYV 93.1 NV Las Vegas  
 1017 KLOS 95.5 CA Los Angeles  
 1019 KXEZ 98.7 CA Los Angeles  
 1021 KVVM- 93.5 AZ Show Low  
 1023 KPLM 106.1 CA Palm Springs  
 1027 KRLV 106.5 NV Las Vegas  
 1030 KFFG 95.1 CA San Bernardino  
 1035 KLOA-104.9 CA Ridgecrest  
 1040 KRGZ- 97.9 CO Cortez  
 1042 KAHM 102.1 AZ Prescott  
 1045 KZEZ 93.5 UT St. George  
 1052 KWNH 93.5 NV Henderson  
 1055 KPAH 92.7 NV Tonopah  
 1127 KCEP 88.1 NV Las Vegas  
 1515 WCMQ- 92.3 FL Hialeah  
 1524 WXDJ 95.7 FL Homestead  
 1534 WMCU, 89.7 FL Miami  
 1550 WKIB 99.9 FL Boca Raton  
 1554 WLVE 93.9 FL Miami Beach  
 1555 WZTA 94.9 FL Miami Beach  
 WLYF 101.5 FL Miami  
 1557 WRGI 93.5 FL Naples  
 1558 WCVU 94.5 FL Naples  
 1600 WAXY 105.9 FL Fort Lauderdale  
 1604 WKRY 93.5 FL Key West  
 1606 WPOW 96.5 FL Miami

## 13: (Es)

0956 WMNF 88.5 FL Tampa  
 1022 WTTT 92.3 IN Bloomington  
 1049 KUBO 88.7 CA Calexico  
 1054 KCHV 93.7 CA Coachella  
 1058 KKBT 92.3 CA Los Angeles  
 1059 KACE 103.9 CA Inglewood  
 KKG0 105.1 CA Los Angeles  
 1100 KLOS 95.5 CA Los Angeles  
 1102 KODJ 93.1 CA Los Angeles  
 1103 KWVE 107.9 CA San Clemente  
 1105 KZLA 93.9 CA Los Angeles  
 1106 KOLA 99.9 CA San Bernardino

## (13:) (Es)

1110 XHRM 92.5 BCN Tijuana  
 KAVG 97.7 CA Mojave  
 1112 KMLE 107.9 AZ Chandler  
 1113 KPWR 105.9 CA Los Angeles  
 1122 KOOL- 94.5 AZ Phoenix  
 KRMX 94.9 CA San Diego  
 KUMX 105.3 CA Lancaster  
 1132 KZIQ- 92.7 CA Ridgecrest  
 1141 KLOA-104.9 CA Ridgecrest  
 1148 KRAI- 93.7 CO Craig  
 1156 WIAA 88.7 MI Interlochen  
 1157 KEYV 93.1 NV Las Vegas  
 1200 KFSD 88.5 MN Rochester  
 1204 WERN 88.7 WI Madison  
 1209 XHMMF 92.3 BCN Mexicali  
 1218 KFOX 93.5 CA Redondo Beach  
 KNJD 92.7 CA Thousand Oaks  
 1230 WCRG 95.7 IL Effingham  
 1234 KPAH 92.7 NV Tonopah  
 1238 KRZE- 92.5 CA Ontario  
 1259 WLAB 88.3 IN Fort Wayne  
 1303 WLLZ 98.7 MI Detroit  
 1316 WHMI- 93.5 MI Howell  
 1318 WTVV 97.7 MI Sandusky  
 1323 WZOW 97.7 IN Goshen  
 1329 WLGI 97.7 IN Rensselaer  
 1332 WVIC- 94.9 MI Lansing  
 1337 WJFM 93.7 MI Grand Rapids  
 1405 WLDY- 92.7 WI Ladysmith  
 1412 WAGE 97.7 WI Rice Lake  
 1413 KCZY 92.7 IA Osage  
 1414 KDAL- 95.7 MN Duluth  
 1454 WGNV 88.5 WI Hilladore  
 1627 KLLC 88.5 MO Kansas City (ms)  
 1637 KEZJ 95.7 ID Twin Falls  
 1739 KCPX 98.7 UT Salt Lake City  
 1805 KXAZ 93.5 AZ Page  
 1810 KKEZ 93.5 UT St. George  
 1821 KCEP 88.1 NV Las Vegas  
 1829 WMMZ 93.7 FL Ocala  
 1830 WMLV 94.5 FL Daytona Beach  
 1832 WHTD 96.5 FL Orlando  
 1833 WMMO 98.9 FL Orlando  
 1836 WKKA 92.3 FL Orlando  
 1845 WOCL 105.9 FL De Land  
 1852 WRMF 97.9 FL Palm Beach  
 1853 WKTK 98.5 FL Crystal River  
 1854 WDMX-105.1 FL Orlando  
 1855 KXEZ 98.7 CA Los Angeles  
 1859 WZTU 104.1 FL Cocoa Beach  
 1900 WIRK 107.9 FL West Palm Beach  
 1901 WMLO 104.9 FL Havana  
 1903 WYUU 92.5 FL Safety Harbor  
 1910 WCVU 94.5 FL Naples  
 1911 WBGF 93.5 FL Belle Glade  
 1914 WLRQ- 99.3 FL Cocoa  
 1919 WLVE 93.9 FL Miami Beach  
 1922 WMTX- 95.7 FL Clearwater

## SOUTHERN FM DX

Dyer, cont.

JANUARY 1992

## 16:13-91:1) (Es)

1929 WCKT	107.1	FL	Lehigh Acres
1933 WEOW	92.5	FL	Key West
1937 WSRZ	106.3	FL	Sarasota
1945 WZMQ	103.9	FL	Key Largo
1951 WOVV	95.5	FL	Fort Pierce
1953 WINK	96.9	FL	Fort Myers
1955 WKIS	99.9	FL	Boca Raton

## 14:

0927 KSBK	88.5	CA	Mission Viejo
0939 XHRM	92.5	BCN	Tijuana
0940 KKBT	92.3	CA	Los Angeles
0946 KZLA	93.9	CA	Los Angeles
0951 KPWR	105.9	CA	Los Angeles
0959 KFOX	95.3	CA	Redondo Beach
1023 KSDS	88.3	CA	San Diego
1026 XETRA	91.1	BCN	Tijuana
1052 KZIQ	92.7	CA	Ridgcrest
1108 KGMX	106.3	CA	Lancaster
1112 KAVS	97.7	CA	Mojave
1124 KLOS	95.5	CA	Los Angeles
KTWV	94.7	CA	Los Angeles
1128 KQYN	95.7	CA	29 Palms
1131 KCMJ	92.7	CA	Indio
KBIG	104.3	CA	Los Angeles
1137 KBBY	95.1	CA	Ventura
1139 KMGQ	106.3	CA	Goleta
KPLM	106.1	CA	Palm Springs
1142 KRZE	93.5	ON	Ontario
1156 KSKQ	97.9	CA	Long Beach
1200 KLON	88.1	CA	Long Beach
1225 XHMF	92.3	BCN	Mexicali
1252 KDHT	92.5	CO	Greeley (ms)

## 24: (Es)

1650 KTYD	99.9	CA	Santa Barbara
1657 KLOS	95.5	CA	Los Angeles
XHMF	92.3	BCN	Mexicali
1658 KXYX	96.5	CA	San Diego
1659 KXEZ	98.7	CA	Los Angeles
1700 KFOX	93.5	CA	Redondo Beach
1703 KLON	88.1	CA	Long Beach
1713 XHSOL	89.9	CA	Mexicali
1716 KFMB	100.7	CA	San Diego
1718 XHRM	92.5	BCN	Tijuana
1720 KRMX	94.9	CA	San Diego
KSDS	88.3	CA	San Diego
1722 WKLO	106.5	CA	San Diego
1733 KJOY	103.7	CA	San Diego
2137 KKBT	92.3	CA	Los Angeles

## 25: (Es)

0759 WESC	92.5	SC	Greenville
WGWG	88.3	NC	Boiling Springs
0800 WKRR	92.3	NC	Asheboro
0809 WKOO	98.7	NC	Jacksonville
0812 KPLE	104.3	TX	Temple (tr)
0829 WJDJ	93.9	KY	Burnside
0837 WLPF	94.5	KY	Lexington
0841 WJIE	88.5	KY	Okolona
(25:)			
0955 KMCH	92.5	MI	Marion City
1037 KLZY	92.5	WY	Powell

## 29: (Es)

0841 WAKA	92.3	FL	Orlando
0847 WHTQ	95.5	FL	Orlando
0848 WLVE	93.9	FL	Miami Beach
0855 WNNF	88.5	FL	Tampa

0915 WATA	93.3	GA	St. Marys
0917 WFIT	101.4	FL	Quincy
0919 WOKF	92.5	GA	Folkston
0920 WHJX	101.5	GA	Brunswick
0927 WHCJ	88.5	GA	Savannah
1059 WLPT	88.3	GA	Jesup
1104 WKCL	91.5	SC	Ladson
1113 WHLZ	92.5	SC	Manning
1242 KSDS	88.3	CA	San Diego
1259 WAIR	92.5	MI	Atlanta
1302 WIAA	88.7	MI	Interlochen
1305 WGVU	88.5	MI	Allendale
1307 KALA	88.5	IA	Davenport
1327 WOZZ	93.5	WI	New London
1335 WJPD	92.3	MI	Ishpeming
1559 WCCA	88.5	IL	Quincy (ms)
1628 WAMU	88.5	DC	Washington
1700 WLLZ	98.7	MI	Detroit
1702 WMXD	92.3	MI	Detroit
1754 WBNH	88.5	IL	Pekin
1759 WONU	89.7	GA	Kankakee
1857 WDCO	89.7	IL	Cochran
1859 WFCH	88.5	SC	Charleston

## 30: (Es)

2122 KCEP	88.1	NV	Las Vegas
July 1991			(CST)

## 1: (Es)

0739 KOEL	92.3	IA	Delwein
0740 WLDY	92.7	WI	Ladysmith
0743 KJJY	92.5	IA	Ankeny
0746 KFSI	88.5	MN	Rochester
0749 WBEZ	91.5	IL	Chicago
0804 KMSU	89.7	MN	Mankato
0809 KDDR	92.3	ND	Oakes
0826 KPLO	94.5	SD	Reliance
0833 KKOK	95.7	MN	Morris
0836 KLDZ	95.1	NE	Lincoln
0838 KBYZ	96.5	ND	Bismarck
0842 KELO	92.5	SD	Sioux Falls
0843 KSQY	95.1	SD	Deadwood
0909 KAML	96.9	WY	Gillette
0913 KCGY	95.1	WY	Laramie
0917 KQLT	103.7	WY	Casper
0923 KBPI	105.9	CO	Denver
0930 KFBO	97.9	WY	Cheyenne
0931 KYCS	95.1	WY	Rock Springs
0936 KMGW	94.5	WY	Casper
0944 KJYE	92.3	CO	Grand Junction
0948 KRAI	93.7	CO	Craig

## 5: (Es)

0740 WUAW	88.3	NC	Erwin
0741 WKSU	89.7	OH	Kent
0742 WJPD	92.3	MI	Ishpeming
0746 WCOL	92.3	OH	Columbus
0759 WYSU	88.5	OH	Youngstown
0808 WGNV	88.5	WI	Milladore

## 8: (Es)

1010 WJPD	92.3	MI	Ishpeming
1012 WIAA	88.7	MI	Interlochen
1035 WZTR	95.7	WI	Milwaukee
1036 WLHT	95.7	MI	Grand Rapids
1038 WKHO	105.9	MI	Charlevoix
1045 WLTO	103.9	MI	Harbor Springs
1047 WGFH	105.1	MI	Cheboygan
1049 WYSY	107.9	IL	Aurora
1059 WDUX	92.7	WI	Waupaca



## SOUTHERN FM DX

July 8: (Es)

1101	WDEK	92.5	IL	De Kalb
1103	WFMT	98.7	IL	Chicago
	WUPS	98.5	MI	Houghton Lake
1104	WOLX	94.9	WI	Baraboo
1110	WDDR	93.9	WI	Sturgeon Bay
1114	WYCA	92.3	IN	Hammond
1116	WAPL	105.7	WI	Appleton
1119	WGGN	97.7	OH	Castalia
1120	WATZ	99.3	MI	Alpena
	WAUN	92.7	WI	Kewaunee
1123	WNBV	93.5	MI	Newberry
1126	WUPQ	97.9	MI	Newberry
1130	WVIC	94.9	MI	East Lansing
1139	WGRD	97.9	MI	Grand Rapids
1141	WFBE	95.1	MI	Flint
1147	WSTD	96.9	MI	Standish
1152	WDZZ	92.7	MI	Flint
1155	WRIZ	106.3	MI	Lakeview
1156	WQLR	106.5	MI	Kalamazoo
1157	WOOD	105.7	MI	Grand Rapids
1159	WUGN	99.7	MI	Midland
1221	WGVU	88.5	MI	Allendale
1344	WBWI	92.5	WI	West Bend
1459	WCPE	89.7	NC	Raleigh

10: (Es)

0929 WKPX 88.5 FL Sunrise

12: (tr)

1326 XHSRO-92.5 NL Monterrey

17: (Es)

1129 WFCH 88.5 SC Charleston

18: (Es)

0152	WRVL	88.3	VA	Lynchburg
0449	KESD	88.3	SD	Brookings
0741	WGCA	88.5	IL	Quincy
0805	WGVU	88.5	MI	Allendale
0826	KDCR	88.5	IA	Sioux Center
0830	WBNH	88.5	IL	Pekin
	WCBR	92.7	IL	Arlington Hts
0900	KEYA	88.5	ND	Belcourt
0906	KTWA	92.7	IA	Ottumwa
0912	KOEL	92.3	IA	Oelwein
0947	WLDY	92.7	WI	Ladysmith
1050	KLZY	92.5	WY	Powell
1621	WYUU	92.5	FL	Safety Harbor
1622	WMMO	98.9	FL	Orlando
1623	WMTX	95.7	FL	Clearwater
1624	WXTB	97.9	FL	Clearwater
	WZTU	104.1	FL	Cocoa Beach
1626	WMMZ	93.7	FL	Ocala
1629	WMNF	88.5	FL	Tampa
1630	WJCT	89.9	FL	Jacksonville
	WUSF	89.7	FL	Tampa
1638	WQPW	95.7	GA	Valdosta
1641	WEOW	92.5	FL	Key West
1643	WJST	94.5	FL	Port St. Joe
1646	WNFI	99.9	FL	Palatka
	WTBB	97.7	FL	Bonifay
1647	WBGH	98.9	GA	Tallahassee
1654	WMKO	94.9	GA	Millen
	WINK	96.9	FL	Fort Myers
1657	WRGI	93.5	FL	Naples
1658	WCVU	94.5	FL	Naples
1700	WSGL	103.1	FL	Naples
1703	WUSA	100.7	FL	Tampa
1707	WQVV	95.5	FL	Fort Pierce
1712	WFLZ	93.3	FL	Tampa

Dyer, cont.

JANUARY 1992

1716	WRMF	97.9	FL	Palm Beach
1718	WWKA	92.3	FL	Orlando
1722	WGNE	98.1	FL	Titusville
1728	WKQL	96.9	FL	Jacksonville
1729	WAPE	95.1	FL	Jacksonville
1731	WPAF	92.5	FL	Panama City
1737	WBYZ	94.5	GA	Baxley
1743	WTFM	105.7	GA	Ashburn
1747	WQZY	95.9	GA	Dublin
1749	WKKZ	92.7	GA	Dublin
1752	WLWI	92.3	AL	Montgomery
1753	WIXV	95.5	GA	Savannah
1754	WIJY	107.9	SC	Hilton Head Is
1759	WFHX	106.1	SC	Hilton Head Is
1804	WJCL	96.5	GA	Savannah
1819	ITOI	109.9	AL	Troy
1820	WTQR	104.1	NC	Winston-Salem
1823	WCGQ	107.3	GA	Columbus
1826	WHLZ	92.5	SC	Manning
1830	WMCG	104.9	GA	Milan
1830	WESC	92.5	SC	Greenville
1844	WRDX	106.5	NC	Salisbury
1846	WOKF	92.5	GA	Folkston
	WFSY	98.5	FL	Panama City
1901	WGLF	104.1	FL	Tallahassee

19: (Es)

0751	KZLA	93.9	CA	Los Angeles
0753	KSBR	88.5	CA	Mission Viejo
0803	KPWR	105.9	CA	Los Angeles
0805	KGBT	92.3	CA	Los Angeles
0815	KPFK	90.7	CA	Los Angeles
0850	XHMMF	92.3	BCN	Mexicali
0951	XETRA	91.1	BCN	Tijuana
0957	XHRM	92.5	BCN	Tijuana
1059	WYSU	88.5	OH	Youngstown
1059	WOSU	89.7	OH	Columbus
1547	WLAB	88.3	IN	Fort Wayne
1550	WRNS	95.1	NC	Kinston
1605	WMUU	94.5	SC	Greenville
1618	WKRR	92.3	NC	Asheboro
1624	WXBQ	96.9	TN	Bristol
	WTFM	98.5	TN	Johnson City
1627	WPVR	94.9	VA	Roanoke
1633	WVPN	88.5	WV	Charleston
1630	KOEL	92.3	IA	Oelwein
1634	WTDK	96.9	NC	Statesville
	WPEG	97.9	NC	Concord
1641	KISD	98.7	MN	Pipestone
1644	KLSS	106.1	IA	Mason City
1646	WKRR	92.5	KY	Owensboro
1649	WRRR	93.9	WV	St. Marys
1651	WKOD	98.7	NC	Jacksonville
1652	WTLC	105.7	IN	Indianapolis
1653	WLBC	104.1	IN	Muncie
1656	WDJQ	92.5	OH	Alliance
1657	WXXP	97.9	IN	Anderson
1700	WAKO	103.1	IL	Lawrenceville
1711	WUPS	98.5	MI	Houghton Lake
1714	WOOD	105.7	MI	Grand Rapids
1715	WAIR	92.5	MI	Atlanta
1716	WWJY	103.9	IN	Crown Point
1717	WYCA	92.3	IN	Hammond
	WVIC	94.9	MI	East Lansing
1719	WLHT	95.7	MI	Grand Rapids
1719	WTRN	101.5	WI	Madison
1720	WAPT	103.9	IL	Dundee
1722	WNIN	92.5	NC	Nags Head
1725	WKID	97.5	IL	Urbana
1729	KQRS	92.5	MN	Golden Valley

July 19: (Es)

1738 WPAY-104.1 OH Portsmouth  
 1746 CHTZ 97.7 ON St. Catharines  
 1749 WBWI 92.5 WI West Bend  
 1757 WMYG 96.9 PA Bradock

24: (Es)

0700 WKPX 88.5 FL Sunrise  
 0701 WCMQ- 92.3 FL Hialeah  
 0708 WLVE 93.9 FL Miami Beach  
 0712 WBGF 93.5 FL Belle Glade

25: (Es)

0848 WCMQ- 92.3 FL Hialeah  
 0850 WKPX 88.5 FL Sunrise  
 0858 WMTX- 95.7 FL Clearwater  
 0901 WMNF 88.5 FL Tampa

29: (Es)

2159 KCRB 88.5 MN Bemidji

31: (Es)

1538 WFCH 88.5 SC Charleston  
 1559 WMHK 89.7 SC Columbia  
 1605 WRUU 96.7 NC Jacksonville  
 1607 WCMQ- 92.3 FL Hialeah  
 WKML 95.7 NC Lumberton  
 1609 WRNS 95.1 NC Kingston  
 1613 WKTC 96.9 NC Goldsboro  
 1622 WNHV 92.5 NC Nass Head  
 1635 WLAP- 94.5 KY Louisville  
 1638 WKRR 92.3 NC Asheville  
 1649 WCUL- 92.3 OH Columbus  
 1659 WZRD 96.5 OH Hamilton  
 WWRZ 97.7 KY Providence  
 WMMO- 93.5 KY Brandenburg  
 1701 WKY-104.1 IN Evansville  
 1705 WGBL-102.3 KY Benton  
 1706 WZKS 103.9 KY Louisville  
 1711 WOFX 94.9 OH Fairfield  
 1721 WJIE 88.5 KY Okolona  
 1820 WTTT 92.3 TN Bloomington  
 1953 XHRM 92.5 BCN Tijuana

August 1991 (CST)1: (Es)

0822 WHWC 88.3 WI Menomonie  
 0830 KBEM 88.5 MN Minneapolis

2: (Es)

1920 KLOS 95.5 CA Los Angeles  
 1921 KBIG 104.3 CA Los Angeles  
 1923 KKBt 92.3 CA Los Angeles  
 1925 KCLB- 93.7 CA Coachella  
 1928 KTWV 94.7 CA Los Angeles  
 1931 KFOX 93.5 CA Redondo Beach  
 1936 KSBR 88.5 CA Mission Viejo  
 1944 XHMMF 92.3 BCN Mexicali  
 1949 XHJC 91.5 BCN Mexicali  
 1951 XHRM 92.5 BCN Tijuana  
 1955 KRMX 94.9 CA San Diego

7: (Es)

0846 XHRM 92.5 BCN Tijuana  
 0848 KFOX 93.5 CA Redondo Beach  
 0849 KPWR 105.9 CA Los Angeles  
 0853 XETRA-91.1 BCN Tijuana  
 0854 KZLA 93.9 CA Los Angeles  
 0857 KKBt 92.3 CA Los Angeles  
 0904 KLOS 95.5 CA Los Angeles

0905 KSBR 88.5 CA Mission Viejo  
 0910 KQTR 94.9 CA Cambria  
 0912 KDDB 92.5 CA Paso Robles  
 0913 KAVS 97.7 CA Mojave  
 0915 KXXZ 95.9 CA Barstow  
 0919 KZTD- 92.7 CA Ridgecrest  
 1100 RB I 88.9 Bze Belize City  
 1204 KSDY 95.1 SD Deadwood  
 1233 KRCS 93.1 SD Sturgis  
 1247 KGFY- 92.7 SD Pierre  
 1250 KQDY 94.5 ND Bismarck  
 KBYZ 96.5 ND Bismarck  
 1251 KBRB- 92.7 NE Ainsworth  
 1424 KSCR- 93.5 MN Benson  
 1437 KRKZ 93.5 OK Altus

11: (Es)

1654 WSSX 95.1 SC Charleston  
 1659 WFCH 88.5 SC Charleston  
 WDCO- 89.7 GA Cochran  
 1713 WKOL 96.9 FL Jacksonville  
 1820 WEDW 92.5 FL Key West  
 1900 WMCU 89.7 FL Miami  
 1955 CMHW 93.5 Cub Santa Clara

12: (Es)

1830 WCLQ 89.5 WI Wausau  
 1839 WOLX 94.9 WI Baraboo  
 1925 KQRS- 92.5 MN Golden Valley  
 1927 KJJY- 92.5 IA Ankeny

13: (Es)

1419 WJNR 101.5 MI Iron Mountain  
 1423 WJPD- 92.3 MI Ishpeming  
 1559 WCNV 88.5 WI Milladore

23: (Es)

1455 WVPN 88.5 WV Charleston  
 1459 WZAC- 92.5 WV Danville  
 1500 WBTQ 93.5 WV Buckhannon  
 1504 WFTG 97.9 WV Fairmont  
 1505 WVSC- 97.7 PA Somerset  
 1507 WCMi 32.7 KY Catlettsburg  
 1508 WDSY 107.9 PA Pittsburgh  
 1511 WXIL 95.1 WI Parkersburg  
 1513 WPAY-104.1 OH Portsmouth  
 1514 WKQS 96.5 PA Johnstown  
 WKDD 96.5 OH Akron  
 1515 WNCI 97.9 OH Columbus  
 1518 WNCX 98.5 OH Cleveland  
 1519 WOVK 98.7 WV Wheeling  
 1520 WWSW- 94.5 PA Pittsburgh  
 1523 WCEZ 107.9 OH Delaware  
 1527 WTTT 92.3 IN Bloomington  
 WAMO 105.9 PA Pittsburgh  
 1530 WTPI 107.9 IN Indianapolis  
 1531 WVKs 92.5 OH Toledo  
 CKSY 95.1 ON Chatham  
 1534 WLBC-104.1 IN Muncie  
 1535 WXXR 94.5 OH Port Clinton  
 1538 WOTL 106.3 OH Ottawa  
 1540 WCLR 95.7 OH Piqua  
 1541 WRJS 98.5 PA Oil City  
 1543 WCVO 104.9 OH Gahanna  
 1544 WDBA 107.3 PA Du Bois  
 1546 WJXQ 105.1 MI Jackson  
 1547 WNNW 98.5 MI Coldwater  
 1551 WCRZ 107.9 MI Flint  
 1554 CKMR 93.9 ON Windsor  
 1557 WCRG 95.7 IL Effingham  
 1600 WNEB 94.5 NY Buffalo  
 1601 WTLC 105.7 IN Indianapolis



## SOUTHERN FM DX

Aug. 23 (Es)

1605	CHRE	105.7	ON	St. Catherines
1607	WMGN	98.1	WI	Madison
1612	WAJI	95.1	IN	Fort Wayne
1614	WPRE	94.3	WI	Prairie du Chien
1612	WZRQ	96.5	OH	Hamilton
1620	WWIZ	103.9	PA	Merger
1624	WRRR	93.9	WV	St. Marys
1624	WQMX	94.9	OH	Medina
1625	WBBY	103.9	OH	Westerville
1628	WQAL	104.1	OH	Cleveland
1631	CJBX	92.7	ON	London
1636	WLQR	101.5	OH	Toledo
1641	WCLV	95.5	OH	Cleveland
1652	WKKG	101.5	IN	Columbus
1654	WOFX	94.9	OH	Fairfield
1700	WRKU	95.1	PA	Grove City
1701	WVNO	106.1	OH	Mansfield
1706	WSWQ	102.3	OH	Wilmington
1720	WSHH	99.7	PA	Pittsburgh
1725	WLAP	94.5	KY	Lexington
1727	WINC	92.5	VA	Winchester
1729	WEMM	107.9	WV	Wheeling
1742	WTNJ	105.9	WV	Mount Hope
1748	WXCC	96.5	WV	Williamson
1750	WOLA	104.9	TN	La Follette
1751	WKGO	106.1	MD	Cumberland
1758	WDHY	95.5	KY	Prestonsburg
1800	WLIL	93.5	TN	Lenoir City
1813	WXTR	104.1	MD	Waldorf
1818	WRVQ	94.5	VA	Richmond
1821	WXIS	103.9	TN	Erwin
1822	WVAF	99.9	WV	Charleston
1825	WRSE	105.7	NC	Columbia
	WFLO	95.7	VA	Farmville
1829	WTCR	104.1	NC	Winston-Salem
	WLWZ	103.9	SC	Easley
1874	WOSF	96.5	VA	Williamsburg
1875	WTDK	96.9	NC	Statesville
1877	WLGQ	97.9	NC	Gaston
1880	WKHX	101.5	GA	Marietta
1883	WBT	107.9	NC	Charlotte
1889	WKRK	92.3	NC	Asheboro
1891	WZLI	106.1	GA	Toccoa
1892	WNND	103.9	NC	Fuquay
1894	WYFL	92.5	NC	Henderson
	WZZU	93.9	NC	Burlington
1900	WLTY	95.7	VA	Norfolk
1902	WXRC	95.7	NC	Hickory
1903	WPEG	97.9	NC	Concord
1916	WRNS	95.1	NC	Kinston
1919	WKTC	96.9	NC	Goldboro
1927	WJMX	103.3	SC	Cheraw
1936	WYAI	104.1	GA	Marietta
1937	WVBS	99.9	NC	Bursaw
1936	WSSX	95.1	SC	Charleston
1941	WKOD	98.7	NC	Jacksonville
2015	WHLZ	92.5	SC	Manning

20: (Es)

1727	WRJA	88.1	SC	Sumter
1746	WSSX	95.1	SC	Charleston

27: (Es)

1104	XHSRO	92.5	NL	Monterey (tr)
1116	TG--	88.5	Gua	
1125	TGFP	88.1	Gua	Guatemala City
1130	YS--	98.5	ES	San Salvador
1136	TG--	98.9	Gua	
1200	TGRT	88.8	Gua	Guatemala City
1204	TG--	94.5	Gua	

Dyer, cont.

Sept 1991

3: (Es)

1549	WAMU	88.5	DC	Washington
2059	WVPN	88.5	WV	Charleston
2122	WZOO	92.3	KY	Hydon
2131	WXCC	96.5	WV	Williamson
2142	WPGW	89.3	DC	Washington
2159	WKPR	92.3	NC	Asheboro

Oct 1991

1: (Es)

1755	WQZN	98.7	FL	Key West
1756	WEOU	92.5	FL	Key West
1801	WKRY	93.5	FL	Key West
1802	WCMQ	92.3	FL	Hialeah
	WNCU	89.7	FL	Miami
1817	WGYL	93.5	FL	Vero Beach
1843	WRMF	97.9	FL	Palm Beach
1850	WKPX	88.5	FL	Sunrise
1920	WAGE	93.5	FL	Belle Glade

14: (tr)

0728	WRBH	88.3	LA	New Orleans
------	------	------	----	-------------

18: (tr)

0026	WYRK	101.5	LA	Baton Rouge
0713	WKRW	92.3	LA	Laplace
0740	KLSA	90.7	LA	Alexandria
	KLDN	88.9	TX	Lufkin
0747	KGRM	91.5	LA	Grambling
	KDAQ	88.9	LA	Shreveport

20: (Es)

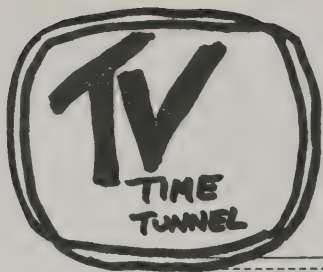
0838	WKTP	88.5	FL	Sunrise
0856	KYKR	93.3	TX	Port Arthur (tr)
0859	WMCU	89.7	FL	Miami
1146	WPCF	88.5	GA	Savannah
1209	WSGX	95.1	SC	Charleston
1223	WWVZ	93.5	SC	Summerville
1225	WXTX	95.9	SC	Charleston
1229	WYCH	88.5	SC	Charleston

Nov 1991 (CST)

5: (Es)

1426	WFGM	97.9	WV	Fairmont
1428	WZAC	92.5	WV	Danville
1432	WBES	94.5	WV	Dunbar
1433	WEMM	107.9	WV	Huntington
1435	WKGO	106.1	MD	Cumberland
1438	WBTQ	93.5	WV	Buckhannon
1439	WXCC	96.5	WV	Williamson
1441	WSIG	96.9	VA	Mt. Jackson
1443	WRVC	93.7	KY	Ashland
1445	WTCR	103.3	WV	Huntington
1447	WTNJ	105.9	WV	Mt. Hope
1448	WIFX	94.3	KY	Jenkins
1452	WLZI	107.3	WV	Miami
1456	WQPO	100.7	VA	Harrisonburg
1459	WDNE	99.3	WV	Elkins
1506	WSIP	98.9	KY	Paintsville
1517	WKCB	107.1	KY	Hindman
1518	WOBC	105.7	WV	Salem
1520	WJVP	100.9	WV	S. Charleston
1521	WVAF	99.9	WV	Charleston
	WKLC	105.1	WV	St. Albans
1522	WJRS	104.9	KY	Jamestown
1527	WAYZ	101.5	PA	Waynesboro

Nov. cont. next month...



H A P P Y   N E W   Y E A R   !!!

From your 'Time Tunnel' Editor:  
TOM BRYANT  
849 TODD PREIS DRIVE  
NASHVILLE, TN 37221  
615-646-2000

### O F F - T H E - A I R   P I C K U P S

WHAT WERE THEY, AND WHY DID THEY EXIST?: Although there probably aren't any 'off-air' pickups used for primary network service today, they were commonplace in rural areas in the 50s and 60s. While the major markets were served by ATST microwave feeds; stations in smaller locales often could not afford ATST's rates, or in some cases, ATST service simply wasn't available. No matter what the situation, the need for live network interconnection had to be met; and construction of a private microwave link was usually the answer.

For this account, I'll rely on memory to relate the story of how the NBC television network originally made it into North Dakota.

WDAY-tv (6) in Fargo was a primary NBC affiliate. For whatever reason, ATST service was not a viable option, so the WDAY people chose an off-the-air pickup. The first step was a tower about 30 miles from the KSTP-tv (Minneapolis) transmitter. A pair of stacked yagis received the channel 5 signal which was then fed into a microwave transmitter and relayed on to the next tower about 30 miles to the northwest...and so on...until the KSTP-tv signal arrived at the WDAY-tv studios some 200 air miles from Minneapolis.

The next segment of this system was owned by the Meyer Broadcasting Co. of Bismarck which had an off-air receiver about 30 miles west of Fargo, and about 5 microwave hops to the KFYZ-tv transmitter site 10 miles east of Bismarck. Meyer later extended the system to KMOT in Minot with an off-air pickup of KFYZ-tv...and to KUMV-tv in Williston utilizing an off-air pickup of KMOT.

Considering the circumstances, these privately owned off-air pickups and associated microwave systems were relatively reliable. Although the relay towers were unmanned, a warning system pinpointed trouble spots and an engineer could usually reach any relay tower in less than two hours.

HOW DID THEY WORK?: A monitor in the WDAY-tv master control room was dedicated to the off-air KSTP-tv microwave pickup. The engineer on duty simply watched to see when Minneapolis originations ended, then punched up the circuit to feed the Fargo transmitter.

The Bismarck crews had a more challenging setup. Economics did not allow an additional hop to get a video signal into the studios. Instead, the audio portion of the microwave receiver was fed to the studios over a telephone line to a headset in master control. The master control operator could hear...but not see...the network video source!

Using the clock, an absence of audio on the headset monitor, and intuition; the switch to NBC was made 'flying blind'. If everything down the line was on schedule, viewers were unaware of the quirks of the system. If KSTP was running late, WDAY would hold their ID on screen with no audio until NBC programming began. The guys at KFYZ would assume that since they were hearing no Fargo audio...and the clock was correct

(continued - next page)



for a network 'hit'.. often punched up the off-air link only to find a huge WDAY-tv slide staring them in the face..and being transmitted in all its' glory on KFYZ-tv!

**COLOSSAL BLUNDERS:** As you might have speculated, WDAY-tv IDs popped up frequently on KFYZ-tv. That, however, wasn't all that went wrong. Every now and then the ATST link between Chicago and Minneapolis would conk out, and KSTP-tv would display a network trouble slide sporting their call letters. This would catch everyone off guard; and as a result, KSTP would show up on all stations to the west. I should point out that KMOT and KUMV were able to monitor both audio and video from their respective off-air feeds; thus transient ID's (particularly from WDAY-tv) were seldom seen in Minot and Williston.

One weekend in the summer of 1959 I decided to drive up to Minot and Williston to take a look at the KFYZ-tv satellite stations (I was employed by KFYZ at the time). While in the control room at KUMV, I witnessed one of the most mind-boggling ID displays of all time. KSTP-tv had interrupted an NBC program with a severe weather warning slide (containing their logo) and was about five seconds into a voice-over description of the potential storm hazard when the WDAY crew zapped it with an ID slide of their own. Next came a KFYZ-tv ID slide, then one from KMOT; and finally...the guy in Williston punched up a KUMV ID slide. All this happened within a ten second time frame...but it seemed like an eternity. It was quite a sight!

**OFF THE AIR?:** Perhaps the most unusual occurrence I witnessed with regard to off-air pickup operation took place in the summer of 1957. Without warning, the WDAY-tv transmitter went off the air..and stayed off! That, of course, meant a disruption of NBC service to the three stations west of Fargo. KFYZ-tv popped up a trouble slide until the program director showed up with a half-hour travelogue film to kill time. The filler stuff continued for another hour, then we loaded a feature film to really eat up the time. Meanwhile the front office had been in touch with WDAY and learned that their transmitter man had found the trouble, but that they didn't have a spare part on hand. Later in the day WDAY advised us that the faulty component was indeed an odd duck...RCA didn't have a replacement either! As a result, WDAY was off the air for over two days while the elusive part was flown in from Austria!

While filler programming continued to grind through the film projectors in Bismarck, the master control operator noted the presence of NBC audio on his headset. What was going on? A call to the KFYZ-tv transmitter engineer verified that there was NBC video on the off-air link; but that it was from WDSM-tv (also on 6) in Duluth.

You guessed it! Tropo conditions were up full blast, and the 250 mile distant WDSM-tv signal was hitting the high gain off-air receiver west of Fargo like a local!

No one had run into a situation like this before...NBC was available via the Duluth signal...but could we carry it? After some frantic calls to the FCC, NBC in New York, and WDSM; we were assured that it would be OK to use the unusual source on an emergency basis as long as the signal strength was adequate.

Well, we went back to NBC via the WDSM signal at the next regular break...and with the exception of a couple of hours (when severe fading occurred) we carried the unorthodox NBC source for the better part of two days. Oddly enough, there never appeared to be any CCI from Duluth on the off-air pickup when WDAY-tv was on.

Eventually the off-air systems gave way to ATST feeds, which in turn were rendered obsolete by satellite distribution. Although a few regional networks continue to use terrestrial microwave between their affiliates; the days of the off-the-air pickup (with the exception of a few LPTV's) remain only as oddities in the pages of television history.

**NEXT MONTH:**

**"Maple Leaf Memories"**



# STATISTICS

FRED NORDQUIST  
7945 BOXFORD RD  
CLAY, NY 13041  
DEADLINE: THE 31

UPDATED

12/ 9/91

ALL-TIME FM SCOREBOARD

DXER NAME	DXER LOCATION	TOTAL	88-92	ES	MS	AU	USA	CN	MX	FO	TPU	YB	AS OF:
DYER	PAT TX SAN ANTONIO	2521	400	2060	65	0	44+	4	21	5	75	70	11/30/91
STROBEL	RAI PH IN MUNCIE	2016	532	654	155	6	43+	7	2	2	55	72	09/28/91
BUNTI	DANNY OK STILLWATER	1900	317	1146	4	0	48+	5	9	2	65	74	09/01/90
ELVING	BRUCE MN DULUTH	1734	317	1365	9	8	47+	4	1	0	53	48	02/07/91
EBELING	JOHN MN BLOOMINGTON	1674	286	973	46	83	47+	6	5	0	59	52	01/01/91
FELA	JOSEPH NJ S. PLAINFIELD	1612	335	869	2	9	37+	6	0	3	47	68	10/12/91
BUGAJ	MIKE CT ENFIELD	1592	217	873	23	23	37+	5	1	2	46	74	11/21/91
PUGH	KEITH AL NEW HOPE	1590	238	811	44	3	43+	7	10	2	63	83	09/08/90
NORDQUIST	FRED NY CLAY	1573	319	776	44	59	41+	5	0	3	50	69	12/09/91
NIEMAN	DAVID NY AKRON	1377	376	417	48	24	43+	8	0	3	55	59	12/23/90
MCCORMACK	FRED ND FARGO	1339	305	990	3	52	48+	6	3	0	58	74	08/03/90
SEYBOLD	BOB NY DUNKIRK	1326	212	611	0	2	45	8	3	3	59	58	06/24/90
CONIGLIO	GREG NY WILLIAMSVILLE	1224	202	624	13	10	37+	8	1	3	50	85	01/01/91
EBELING	JOHN MN PROSIT	1137	212	763	3	5	48+	9	2	0	60	75	01/01/91
JEFFERSON	JOHN CA ANTIOCH	1130	250	662	160	0	29	4	5	0	38	74	10/17/90
BRUMFIELD	DAVE IN RICHMOND	897	165	325	15	0	36	4	2	2	44	81	09/01/91
SNOLAREK	BOB NJ OLDWICK	890	149	385	2	0	36+	3	0	1	41	78	02/18/91
HOLBROOK	HANK MD CHEVY CHASE	866	224	234	18	0	35+	6	0	3	45	59	10/05/91
MICHALEK	ALAN MA SPRINGFIELD	812	106	495	0	0	36+	5	0	0	42	52	10/01/90
OETTING	DANIEL PA EXTON	756	190	250	9	2	34+	6	0	0	41	77	06/07/91
ALLEN	DOUGLAS CO WOODLAND PARK	711	116	489	44	0	39	4	3	0	46	88	10/30/90
GREENE	GEORGE OH AKRON	706	54	234	0	0	33+	3	0	0	37	71	03/09/91
ROSS	ROBERT ON LONDON	682	181	280	0	0	33	6	0	3	42	76	02/11/91
BRUMFIELD	DAVE IN MUNCIE	682	149	65	1	0	29	1	1	0	31	79	03/01/90
HALL	D. BRUCE ON BRANTFORD	503	95	10	55	2	34	4	0	1	38	90	12/04/91
NIENAJADLY	BILL NJ CLIFTON	501	95	169	5	0	34+	2	0	0	37	75	07/11/90
SHAFTON	RICHARD NJ ROCKAWAY	459	116	142	0	0	30+	3	0	0	34	78	06/29/90
MEADE	LARRY IL CHICAGO	459	85	65	6	0	23	2	0	0	25	79	09/05/90
NOLLMAN	BILL CT NORWICH	453	46	155	17	0	31+	9	0	1	35	81	11/24/91
SITTEL	MATT NC RALEIGH	330	49	58	0	2	16+	1	1	0	19	88	06/09/91
HEPBURN	WILLIAM ON BRAMPTON	309	183	83	1	6	21	2	0	1	24	85	11/10/91
BRANDENBURG	TODD KS SILVER LAKE	309	46	32	0	1	24	0	0	0	24	80	09/02/90
MANCUSO	GUS MD CHEVERLY	259	41	31	0	0	22+	0	0	0	23	70	03/26/91
MANCUSO	GUS WV BIRCH RIVER	228	20	4	0	0	15	0	0	0	15	87	03/26/91
HAWK	MIKE NE OMAHA	211	36	4	1	0	9	1	0	0	10	91	08/19/91
RENFREW	JIM NY ROCHESTER	185	37	2	0	0	6+	2	0	0	20	9	06/15/91
MEADE	LARRY KY PRICE	165	35	0	14	0	10+	0	0	0	11	79	09/05/90
WESLER	FRANK PA ERIE	162	23	2	0	0	8	1	0	0	9	64	08/20/90
ONYSCHUK	KEN IL RIVERDALE	141	30	0	0	0	7	0	0	0	7	68	06/30/91

\* VERIFIED.

COLUMN DEFINITIONS: are as follows: Total = Total number of FM stations logged from DXer's location (All loggings should be received within 25 mile radius of this location to count.) Freq. changes count as a station, call letter changes DO NOT count. Also count a station only once regardless if logged by different propagation modes. 88-92 = All stations logged from 88.0 to 91.99 Mhz. Es = Total number of stations logged via E-skip. MS = Total by meteor scatter. Au = Total via Aurora. USA = Total number of states and the "+" = Washington, DC. CN = Number of Canadian provinces logged. MX = Number of Mexican states logged. FO = Number of foreign countries, but not Canada or Mexico. TPU (Total number of political units) = Sum of USA CN MX and FO. YB = The year you began DXing from this location. Other groundrules for computing log totals are included in AUGUST 88 VUD Page 48. Date cutoff: 1989. 73 - Fred

ABOVE STATS REPRESENT MOST NO. OF STATIONS FOR EACH POLITICAL UNIT (PU) LOGGED FROM A SINGLE SPECIFIED DXER'S LOCATION. FIRST AND SECOND PLACE DXERS ARE LISTED ONLY. OTHERS THAT ARE TIED FOR SECOND ARE NOT LISTED....FON.

Following up on my Oct 91 VUD column concerning requests for printouts of Distances between DXer's location and cities in North & Central America (and Caribbean). I've refined the program to print (on 10 pages) distances (in miles) for 4653 cities in 79 political units, including all locations listed in the WFDPA North American TV Data Base and FM Atlas (Part I Listing) as well as Caribbean countries with TV/FM stations listed in WRTVH. A \$2.00 donation to cover costs of mailing and printing will get you your personalized listing. Also include with your request the Great Circle Coordinates of your DX location. 73 - Fred.



STATES STATS  
USA

PU	#	DXER	#	DXER	PU	#	DXER	#	DXER	PU	#	DXER	#	DXER
AL	106	KPU-	56	JEB-	LA	72	RSA-	63	BEL-	OH	220	RST-	177	FME-
AK	11	JJE3	0	None	ME	40	RST2	30	KPU-	OK	122	DBU-	51	FMO-
AZ	49	PDY-	36	JJE2	MD	54	FTE2	48	GMA-	OR	31	JPI-	29	FAC2
AR	86	DOD-	61	VEA-	MA	94	RST2	77	ABU-	PA	157	DNI-	133	FMO-
CA	360	JJE2	126	PDY-	RI	156	RST-	139	FME-	RI	14	WMO-	12	RST2
CO	107	DAL-	69	JJE2	MM	169	JEB-	155	JEB2	SC	54	MSI1	53	PDY-
CT	49	ABU-	42	AMI-	MS	78	KPU-	64	TMC-	SD	39	KPU-	35	JJE2
DE	13	DCE-	11	JFE-	MO	118	FME1	84	DBU-	TN	110	KPU-	93	JAY-
FL	152	PDY-	146	DBU-	RT	29	JJE2	25	JPI-	TX	303	PDY-	211	RSA-
GA	102	KPU-	97	PDY-	NE	57	MMA-	50	JJE2	UT	29	PDY-	22	DBU-
HI	0	None	0	None	HV	24	PDY-	24	DBU-	VT	14	KPU-	13	AMI-
ID	28	DBU-	26	PDY-	NH	27	RST2	17	AMI-	VA	61	MSI1	60	JFE-
IL	198	FME1	196	RST-	NJ	75	JFE-	69	RSM-	WA	46	FAC2	30	JJE2
IN	180	RST-	132	DBR-	NM	45	JJE2	44	KPU-	WV	39	RST-	33	FME-
IA	120	RBR-	102	JEB-	NY	209	FMO-	172	DNI-	WI	136	BEL2	120	JEB-
KS	89	DBU-	78	TBR-	NC	117	MSI1	79	PDY-	WY	26	RST-	25	PDY-
KY	101	RST-	69	DBR-	ND	34	FAC-	34	FAC2	DC	13	GMA-	13	DNI-

## KEY TO DXER INITIALS/LOCATION

AMI-	ALAN	MICHAEL	MA	SPRINGFIELD
BEL2	BRUCE	ELVING	AN	DULUTH
DAL-	DOUG	ALLEN	CO	WOODLAND PARK
DBR-	DAVE	BRUMFIELD	IN	MUNCIE/RICHMOND
DBU-	DANNY	BUNTIN	OK	STILLWATER
DNI-	DAVID	NIEMAN	NY	AKRON
DOD-	DAVID	ODELL	AR	LITTLE ROCK
DOE-	DANIEL	GETTING	PA	BROOKHALL
FAC-	FRED	MCCORMACK	ND	DES LACS
FAC2	FRED	MCCORMACK	ND	FARGO
FME-	FRANK	MERRILL	MI	MIAMI
FME1	FRANK	MERRILL	IL	MACOMB
FMO-	FRED	MORDOUST	NY	CLAY
GMA-	GUS	MANCUSO	MD	CHEVERLY
JAY-	JIM	AYERS	TN	MURFREESBORO
JEB-	JOHN	EBELING	MO	BLONDINGTON
JEB2	JOHN	EBELING	MM	PROSIT
JFE-	JOSEPH	FELA	NJ	S PLAINFIELD
JJE2	JOHN	JEFFERSON	CA	PLEASANTON/ANTIOCH
JJE3	JOHN	JEFFERSON	AK	ANCHORAGE
JPI-	JIM	PIZZI	NM	LOVINGTON
JPI1	JIM	PIZZI	CA	ORCUTT
KPU-	KEITH	PUGH	AL	NEW HOPE
LAE-	LARRY	HEADE	IL	CHICAGO
ABU-	MIKE	BUGAJ	CT	ENFIELD
MMA-	MIKE	HAWK	NE	OMAHA
MSI-	MATT	SITTEL	TN	KINGSFORD
MSI1	MATT	SITTEL	NC	RALEIGH
PDY-	PAT	DYER	TX	SAN ANTONIO
RBR-	ROGER	BROWN	IA	AMES
RSA-	RICK	SAFORD	TX	BURNETT
RSC-	ROBERT	SCHWEITZER	NJ	E BRUNSWICK
RSM-	ROBERT	SAOLAREK	NJ	OLDWICK
RST-	RALPH	STROBEL	IN	MUNCIE
RST2	RICHARD	STEINBERGER	MA	HUDSON
SCH-	SAUL	CHERNOS	OH	BURNT RIVER
SWE-	STEVE	WEST	PA	HAVERTOWN
TBR-	TODD	BRANDENBURG	KS	SILVER LAKE
TAC-	TIA	MCCVEY	TN	BOLIVAR
VEA-	VERNON	EATON	AR	BENTON
WMO-	WILLIAM	NOLLMAN	CT	GLASTONBURY
WHE2	WILLIAM	HEPBURN	MT	CORAL HARBOR

## CANADA/MEXICO/FOREIGN STATS

PU	#	DXER	#	DXER	PU	#	DXER	#	DXER	PU	#	DXER	#	DXER
CANADA					MEXICO (CONT)					MEXICO (CONT)				
AB	28	JEB2	26	JJE2	CHI	8	FME1	6	FAC-	SLP	2	TMC-	0	None
BC	20	JJE2	11	JEB2	CHP	3	PDY-	0	None	SUN	4	PDY-	3	JJE2
NB	15	FME-	13	FAC2	COA	8	FME1	6	PDY-	TAB	2	TMC-	2	PDY-
NB	9	FME1	6	RST-	DF	21	TMC-	21	JPI-	TAM	8	PDY-	6	KPU-
NF	13	FMO-	12	DNI-	DUR	1	PDY-	0	None	VCZ	9	JPI-	6	KPU-
NS	15	FME1	9	KPU-	GRO	5	PDY-	1	JPI-	YUC	2	JPI-	2	PDY-
OW	114	DNI-	80	FMO-	GTO	9	JPI-	2	TMC-					
PEI	2	JFE-	2	RST-	HGO	1	JPI-	0	None	FOREIGN				
PQ	28	FME1	26	DNI-	JAL	12	TMC-	10	PDY-	CUBA	6	RST-	5	FME1
SK	9	JJE2	8	FME1	MEX	3	JPI-	3	PDY-	BELIZ	3	PDY-	1	JPI-
MWT	1	WHE2	1	JEB2	MIC	3	JPI-	1	PDY-	BERMU	3	DNI-	2	FMO-
					MOR	5	PDY-	3	JPI-	EL SA	4	PDY-	1	KSI-
MEXICO					NL	16	PDY-	14	KPU-	GUATE	12	PDY-	4	KSI-
AGU	1	JPI-	0	None	DAX	1	JPI-	1	PDY-	HONDU	2	KSI-	2	PDY-
BCN	14	PDY-	10	FAC-	NAY	1	PDY-	0	None	JAMAI	14	KPU-	3	JPI-
BCS	1	PDY-	0	None	PUE	5	PDY-	4	TMC-	PUERT	4	KSI-	1	DNI-
CAM	1	JPI-	0	None	SIN	2	JJE2	1	DBU-	D.REP	1	KSI-	0	None
										BAHAM	1	FMO-	1	WMO-

ABOUT OUR COVER...Thanks to VUD PHOTO NEWS' editor Dave Nieman for the great cartoon on this month's issue...kudos also to the following DXers for contributing to recent VUD covers: Troy Mimms and NorSat Services (OCTOBER 1991 V.U.D.) Mike Cherry, Vancouver BC, via NORTHERN FM's Greg Coniglio (NOVEMBER 1991 V.U.D.). Some additional layout work was provided by Bob Twomey and Bill Thompson. Also...upcoming V.U.D. covers will feature material from the extensive coverage map collection of FCC FM NEWS' editor Bruce Elving!

Recently, Eric Voytko kindly sent this list to my ETVDX column. I felt this list is of great help in possibly IDing some DX catches. So I am submitting this list courtesy of Eric to the VUD. One note though, John Combs of Tallahassee Florida said not all stations carrying Channel America run it all the time. Some might only carry CHA for only a few hours a night or so, still hopefully this can be of use to all of you-Bill Nienajadly

## CHANNEL AMERICA LPTVS AND FULL POWER STATIONS AS OF OCTOBER 2, 1991

By ERIC VOYTKO

The good people at Channel America were kind enough to send me a current station listing. I have re-organized them from NSI ranking to State and City of License

### ARIZONA

K25DM Phoenix

### CALIFORNIA

K66CY Arroyo Grande  
KKAH-61 Bakersfield  
K67DY Chico  
K38CW Palmdale  
KAGL-30 San Bernardino

### COLORADO

K38DF Aurora

### FLORIDA

W42AM Daytona  
W07BR Fort Meyers  
W09BS Naples  
W69AX Perry  
W35AJ St. Petersburg  
W09BI Tallahassee

### GEORGIA

WNGM-34 Athens  
W67BE Augusta  
WSST-55 Cordele  
W35BB Dublin  
W67CI Roswell  
W55AW Savannah

### ILLINOIS

W30AL Plano  
K45AJ Rockford

### INDIANA

W07CL Auburn  
W52AZ Evansville

### IOWA

K39AS Marshalltown

### KANSAS

K06KZ Junction City

### KENTUCKY

W07BY Morehead  
W10BM Morehead  
W02BP Mt. Sterling  
W06BC Mt. Sterling  
W46BE Murray

### LOUISIANA

W47DW Alexandria  
WGMB Baton Rouge  
K13VG Jennings  
K62DW Lafayette  
W61AZ New Orleans

### MAINE

W57AP Portland

### MARYLAND

W52AX Leonardtown

### MASSACHUSETTS

WMFP-62 Lawrence

### MICHIGAN

W26AB Detroit  
W40AK Norton Shores

### MINNESOTA

K13UT Minneapolis

### MISSISSIPPI

W20AD Philadelphia  
W11BU Webb

### MISSOURI

K35CO Cameron  
K02NQ Columbia  
K07TV St. Louis

### NEBRASKA

K67CV Lincoln

### NEW YORK

W58AV Buffalo  
W08CJ Glen Falls  
W15AS Oneonta  
W40AG Rochester  
W14AE Syracuse

### NORTH CAROLINA

WAAP-16 Burlington  
W34AX Henderson  
W53AD Lenoir  
W68BK Raleigh  
W20AT Roanoke Rapids  
W10BZ Wilmington

### OHIO

W29AI Akron  
W59BP Ashland  
W25AI Cincinnati  
W56CA Delaware  
W48AP Toledo

### OKLAHOMA

K28DE Broken Bow  
W07TX Oklahoma City  
W27AK Ponca City

### OREGON

K38CP Medford

### PENNSYLVANIA

W47AO Berwick  
W40AF Dillsburg  
W08CC Hammononton  
W35AO Hazelton  
W63AU Pittsburgh  
W09BI Williamsport

### TENNESSEE

W18AN Harrogate  
W12BU Heiskell  
W27AN Murfreesboro

### TEXAS

K07UD Corpus Christi  
K50AO Corpus Christi  
KJLF-65 El Paso  
K54CB Mt. Pleasant  
K67DW San Antonio

### UTAH

K55DL St. George

### VIRGINIA

W51BH Gloucester  
W68BI Norfolk

### WASHINGTON

KCWT-27 Wenatchee

### WEST VIRGINIA

W55AT Huntington

### WISCONSIN

WHKE-55 Kenosha  
W43AV Waukegan



## ANTENNAS

- 008 YAGI ANTENNA FOR VIDEO SIGNALS BELOW CH. A2 - Thompson, 38 Dec 79 (1)
- 027 SIMPLE MAST REINFORCEMENT - Thompson, 17 Jun 81 (1)
- 031 UNDERSTANDING FM ANTENNA SPECS - Thompson, 32 Jly 81 (1)
- 038 LOOPS, EARS, AND DX - Grant, 22 Dec 81 (1)
- 044 MODIFYING THE FINCO P-7 PARABOLIC DISH - West, 24 May 82 (2); 52 Oct 82 (2)
- 045 STAGGER STACKING ANTENNAS - Thompson, 24 Jun 82 (5)  
practical information on stacking 2 or more arrays for more gain
- 051 THE HOVERMAN ANTENNA (for UHF TV) - Thompson, 58 Sep 82 (2)
- 059 EXPERIMENTS WITH A HOMEBREW YAGI ANTENNA - Thompson, 26 Mar 83 (1);  
30 Apr 83 (1); 39 Jan 84 (1)
- 094 DX'ing WITH INDOOR ANTENNAS - Manucci, 28 Jun 87 (2)
- 114 A BETTER UHF DISH FEED? - Thompson, 20 May 89 (2)
- 123 A HOMEBREW ANTENNA FOR VIDEO SIGNALS BELOW 54 MHz - Prosee, 32 Apr 90 (2)
- XXX See Also "ANTENNA NEWS" column...

## EQUIPMENT REVIEWS

- 005 BEARCAT SCANNERS (Models 210 & 250) - O'Connor, 6 Sep 79 (3)
- 018 AKAI AT-V04 FM TUNER - Sawatzky, 46 Oct 80 (6)
- 022 DIGITREX ELECTRONICS PA-19 PREAMP - Wilson, 23 Mar 81 (1)
- 032 RADIO SHACK #15-1134 UHF PREAMP - Thompson, 45 Aug 81 (1)
- 029 JERROLD STO-82, "THE BEST UHF BALUN" - Thompson, 31 Jun 81 (1)
- 042 YAMAHA T-2 FM TUNER - DeFilippo, 42 Mar 82 (3)
- 047 BLONDER-TONGUE UHF TV PREAMPS - Thompson, 22 Jly 82 (1)
- 048 MAGNUM #2001 CAR FM PREAMP - Thompson, 37 Jly 82 (1)
- 050 RAYSON "HI-PERFORMER II" UHF PREAMP - Thompson, 54 Aug 82 (2)
- 060 CARVER TX-11 FM TUNER - Thompson, 30 Jun 83 (3); 56 Aug 83 (2)
- 062 DX ANTENNA UHF TV PREAMP - Pizzi, 12 Aug 83 (3)
- 071 CHANNEL MASTER PROBE NINE FM ANTENNA - Thompson, 25 Sep 84 (1)
- 076 ALLIANCE HD-73 ROTOR - Wertman, 45 Sep 85 (1)
- 078 CHANNEL MASTER 7206 HI-Q TUNABLE UHF TRAP - Wertman, 40 Dec 85 (1)
- 079 ONKYO T-9090 FM TUNER - Buntin, 5 May 86 (2)
- 080 TEKNIKA 6510 UHF TV TUNER - Wertman, 32 May 86 (2);  
- Thompson, 42 Jun 86 (2)
- 096 ANTENNA NEWS - Wertman, 71 Sep 87 (1)  
about the Channel Master 9520 rotor
- 100 SOME ANSWERS: BEST GEAR FOR TV & FM - Walczak, 39 Nov 87 (1)
- 105 1988: LEAP YEAR FOR FM TUNER PERFORMANCE - staff, 38 May 88 (1)
- 130 A USER'S REVIEW OF THE ICOM R-7000 - Mims, 34 Jan 91 (1)

F<sub>2</sub> PROPAGATION

- 004 ALL ABOUT F2 SKIP - Thompson, 8 Aug 79 (5); 8 Oct 79 (3)
- 006 HOME-BREW CONVERTER FOR F2 TV DX - Pulice, 8 Sep 79 (3)
- 009 SUPER SIMPLE SYSTEM FOR BBC VIDEO - Goldman, 7 Jan 80 (1)
- 015 TRANSATLANTIC F2 TV DX TIPS - Pulice, 40 Aug 80 (3)
- 034 MORE F2 TV DX? - Thompson, 46 Sep 81 (1)
- 109 F2 SKIP...GET READY - Stock, 42 Oct 88 (1)
- 111 TIPS FOR F2 TV DX'ing - Turcsany, 43 Dec 88 (1)
- XXX See Also RECEPTION REPORTS...

## FM SCA (Subsidiary Communications Authorization)

- 001 SCA: RADIO THE FCC DOESN'T WANT YOU TO OWN - Elving, 25 Jly 77 (5);  
13 May 84 (1) notes on installing SCA decoders
- 065 SCA PAGING - Elving, 28 Nov 83 (2)
- XXX See Also "TECHNICAL TOPICS" column...

## INTERNATIONAL BROADCASTING

- 012 DX AROUND THE WORLD - Taylor, 22 Jun 80 (3)  
the author describes FM in Egypt, S. Africa, Hong Kong, & China
- 017 FM AND TV IN FIVE EUROPEAN CITIES - Stroebel, 12 Oct 80 (3)  
the author visits Vienna, Salzburg, Paris, London, & Edinburgh
- 028 A LOOK AT EUROPEAN TV TEST PATTERNS - Thompson, 28 Jun 81 (2);  
- Luman, 44 Oct 81 (2)
- 056 FM IN ARGENTINA - Thompson, 32 Nov 82 (1)
- 058 REPORT FROM THE CARIBBEAN - Hauser, 24 Mar 83 (3)
- 081 CUBAN TV TEST PATTERNS - Nieman, 22 Aug 86 (1)
- 095 INTERNATIONAL DX - 70 Sep 87 (1) transatlantic skip in Holland
- 097 TRANSATLANTIC E-SKIP: SOME OBSERVATIONS - Emerson, 16 Oct 87 (1)
- 115 PRECISION FREQ. OFFSETS OF EUROPEAN LOWBAND VHF TV - Onken, 18 Jun 89 (2)
- 120 TELEVISION IN SOCIALIST CUBA - Anderson, 36 Dec 89 (1)
- 124 VIDEO CARRIER FREQ. LIST (AUSTRALIA & NEW ZEALAND) - Kadet, 34 Apr 90 (2)
- 134 FM OPERATIONS IN THE CARIBBEAN - Renfrew, 8 Aug 91 (2)

## METEOR SCATTER PROPAGATION

- 024 THE PHYSICS OF METEOR SCATTER - Fahber, 8 Apr 81 (5); 36 Mar 82 (6)  
good intro to MS theory, equipment, when and where to look, etc.
- 043 METEOR SCATTER INSIGHTS - Fahber, 5 Apr 82 (1)  
forecast of MS activity; false CCI patterns during MS bursts
- 049 METEOR SCATTER INSIGHTS - Fahber, 52 Aug 82 (2)  
M. burst communications; why reception is limited; dates of showers
- 054 METEOR SCATTER INSIGHTS - Fahber, 28 Nov 82 (1)  
about knots and swarms; forecasts of MS activity
- 075 IN SEARCH OF A METEOR SCATTER BEACON - Owen, 28 Jly 85 (3)  
measurement of peaks and bursts in meteor showers
- 090 METEOR SCATTER INSIGHTS - Fahber, 42 Dec 86 (1)

## MISCELLANEOUS TECHNICAL TOPICS

- 007 USING THE 6m BAND AS A DX BAROMETER - Thompson, 47 Nov 79 (1)
- 010 OVERLOAD FILTERS FOR CAR FM - Weeks, 7 Feb 80 (3); 32 Dec 80 (2)
- 011 NPR'S SATELLITE INTERCONNECTION SYSTEM - Monti, 28 Apr 82 (3); 6 Apr 80 (3)
- 013 AURORAL DX TIPS - Thompson, 25 Jun 80 (1)
- 014 F(50,90) INVENTED - Elving, 40 Jly 80 (2)  
whether or not to expect DX based on station coverage contours
- 021 CANADIAN CONTINUOUS MARINE BROADCASTS - Hepburn, 20 Mar 81 (3)
- 025 CHOOSING A PREAMP FOR UHF TV DX - Thompson, 30 Apr 81 (2)
- 039 A LOOK AT THE FM BAND (via a spectrum analyzer) - Monti, 26 Dec 81 (1)
- 046 FINDING BEARINGS AND HEADINGS - Wilson, 32 Jun 82 (2)
- 061 WEATHER SYSTEMS AND TROPO DX - Pearlringi, 38 Jly 83 (1)
- 063 VHF POLICE/UTILITY FREQUENCY TABLE - Blevins, 8 Sep 83 (2)
- 066 General information on UHF PREAMPS - Thompson, 31 Nov 83 (1); 26 Feb 84 (1)
- 067 TUNE IN ON STS-9 (Space Shuttle Communications) - Van Horn, 32 Nov 83 (1)
- 068 MEL WILSON ON E-SKIP - Wilson, 37 May 84 (2); 32 Jun 84 (2) [reprint]
- 069 USE A COMPUTER TO MEASURE YOUR DX DISTANCES - Combs, 40 Aug 84 (2)
- 070 A DX DISTANCE & BEARING PROGRAM - Fuss, 22 Sep 84 (2); 50 Oct 84 (1)
- 071 AMATEUR RADIO TV - Stone, 2 May 86 (2); 3 Feb 88 (2)
- 103 IT'S MAY...TIME FOR E-SKIP DX!! - 33 May 88 (1)  
a quick description of what to look for; basic skip tutorial
- 104 OBSERVING PATCHES OF SPORADIC-E IONIZATION - Fahber, 34 May 88 (2)  
how to see noctilucent clouds, etc.
- 106 WEATHERADIO CANADA - Hepburn, 5 Jun 88 (2)  
list of weatheradio stations with power, calls, freq, etc.
- 112 CANADIAN COAST GUARD CONTINUOUS MARINE BROADCASTS - Hepburn, 41 Mar 89 (3)
- 113 SPECIAL REPORT: GIANT MARCH SOLAR FLARE - Zimmerman, 3 Apr 89 (1)
- 119 2500-mile TROPO FROM CA TO HI - reported by Remington, 46 Nov 89 (1)
- 125 IONOSPHERIC PROPAGATION: NEW OPINIONS - Prosee, 32 Jun 90 (3)
- 126 DIGITAL RADIO: THE SOUND OF THE FUTURE - Rosenberg, 66 Sep 90 (2)
- 127 GUIDELINES FOR BETTER UHF RESULTS - McCarthy, 51 Oct 90 (1)
- 128 WHEN DOES IT HAPPEN? A SHORT LESSON ON E-SKIP - Nienajadly, 8 Dec 90 (1)
- 129 WINTER FM DX'ING - Allen, 30 Jan 91 (3)
- 135 USING YOUR SCANNER FOR EARLY DETECTION OF E-SKIP - Nienajadly, 54 Aug 91 (1)

## PHOTOGRAPHING AND TAPING DX

- 016 PHOTOGRAPHING DX USING A SIMPLE CAMERA - Kramer, 48 Sep 80 (2)
- 019 HOW TO TAPE (audio) DX - Elving, 30 Dec 80 (2)
- 020 TV DX PHOTO TIPS - Weeks, 33 Feb 81 (1)
- 040 VIDEO TAPE YOUR DX - Grant, 25 Jan 82 (1)
- 118 YET ANOTHER WAY OF TAPING THAT DX - Merrill, 54 Oct 89 (1)

## PIRATE BROADCASTING

- 030 CLOSE ENCOUNTER WITH AN FM PIRATE - Strobel, 4 Jly 81 (2)
- 033 EUROPEAN FM PIRATES - Thompson, 5 Sep 81 (1)
- XXX See also RECEPTION REPORTS...

## REGULATIONS, LAWS, AND STANDARDS

- 003 EDUCATIONAL FM UPDATE - Dorner, 12 Jun 79 (3); 5 Jly 79 (2)  
laws, power limits, etc. for stations in the 88-92 band
- 036 WFTDA OFFICIAL CLUB STANDARDS - 41 Oct 81 (1); reprinted 46 Jly 87 (1)  
guidelines for computing DX distance records and totals
- 052 DIRECT BROADCAST SATELLITE REGULATIONS - Fahber, 4 Oct 82 (5)
- 057 FCC LPTV STANDARDS - Fahber, in TV NEWS, 8 Nov 81 (2); 7 Feb 83
- 089 ADVANCED TV SYSTEMS COMMITTEE BROADCAST DEMO (for HDTV) - Monti, 7 Dec 86 (2)
- 091 ANARC UPDATE - Sprachman, 22 Jan 87 (3)  
the Electronic Communications Privacy Act; the legality of DX'ing, etc.
- 107 PROPOSAL TO REALLOCATE THE 120m & 90m SW BANDS, AND 225-230 MHz TO  
BROADCASTING IN THE US & CAN. - Bueneman, 36 May 88 (2); Grant, 8 Jun 88 (3)



## RECEIVER DESIGN AND MODS

- 002 AGC AND HOW IT AFFECTS TV DX - Thompson, 8 Jun 79 (3)
- 064 THE NONIMPORTANCE OF CAPTURE RATIO IN FM DX - Elving, 20 Oct 83 (2)
- 105 1988: LEAP YEAR FOR FM TUNER PERFORMANCE - staff, 38 May 88 (1)
- 121 MODIFY YOUR RADIO FOR BETTER SELECTIVITY - Nienajadly, 34 Jan 90 (1);  
4 Apr 90 (1); 33 Jan 91 (1); Bugaj, 24 Feb 90 (2); Buntin, 16 Mar 90 (1);  
Nollman, 25 Feb 90 (1); 52 Oct 91 (2)
- 122 SELECTIVITY MODIFICATION PROMISES MORE FM DX - Elving, 10 Apr 90 (3)

## TELEVISION

- 023 WILL LPTV FILL THE BANDS WITH CCI? - Thompson, 6 Apr 81 (3)
- 026 NEW KID IN TOWN - Fahber, 11 Jun 81 (3)  
all about low power television (LPTV), regs & technical standards
- 035 UHF TV PROBLEMS - Fahber, in TV NEWS, 5 Oct 81 (2)
- 037 THE VERTICAL BLANKING INTERVAL - Fahber, in TV NEWS, 4 Dec 81 (1)
- 053 STV STATION LIST - Sullivan, 48 Oct 82 (4)  
the basics of scrambling; TV stations using those techniques
- 055 STV UPDATE - Thompson, 29 Nov 82 (1)
- 072 CABLE TV INTERFERENCE - Sirovy, 21 Dec 84 (3)
- 116 SATELLITE NEWS ANNUAL LISTING OF SERVICES - Jensen, 8 Oct 91 (8);  
17 Nov 91 (3) [1990 list: 12 Sep 90 (8); 7 Oct 90 (3); 1989 list:  
3 Jly 89 (8); 67 Aug 89 (3)]

## TELEVISION NEWS COLUMN (Fahber)

- 041 TELEVISION HISTORY PACKAGE (17 pages)  
The author ran, in seventeen installments, a "Retrospect" - good,  
brief history of the development of TV. Topics include: pre-FCC days,  
early experiments and DX, early equipment, development of standards,  
what happened to Channel 1, radioastronomy and Channel 37, the KLEE/  
KPRC bogus DX story, early repeaters, transmission from airplanes, etc.  
DATES: 6 Jan 82; 6 Feb 82; 4 Mar 82; 8 Apr 82; 6 May 82; 6 Jun 82;  
6 Jly 82; 10 Dec 82; 9 Jan 83; 6 Apr 83; 4 May 83; 3 Jun 83; 5 Jly 83;  
3 Aug 83; 50 Sep 83; 4 Nov 83; 19 Dec 83

## TV TIME TUNNEL COLUMN (Bryant)

- TV1 19 May 89 (1); 21 Jun 89 (1); 54 Jul 89 (1)  
interesting stories of ND TV in the 1950's based on author's experiences
- TV2 3 Aug 89 (1); 55 Sep 89 (1); 18 Oct 89 (1)  
logos and QSL's from 1955-56
- TV3 22 Nov 89 (1); 18 Dec 89 (1); 35 Jan 90 (1); 26 Feb 90 (1); 23 Mar 90 (1)  
the history of TV development
- TV4 36 Apr 90 (1)  
a struggle to survive: the story of WMCV, WTLT, and WZTV
- TV5 18 May 90 (1); 31 Jun 90 (1)  
The Great Grocery Crash: stories of small-market TV in the 50's
- TV6 55 Aug 90 (1); 65 Sep 90 (1)  
early TV in Saskatchewan
- TV7 45 Nov 90 (1); 54 Dec 90 (2); 4 Jan 91 (5)  
Fargo-11's mysterious origins; stations on air in '49 - with logos!
- TV8 36 Feb 91 (2)  
historic TV test patterns
- TV9 4 Mar 91 (2)  
history of Seattle TV market
- TV10 21 Apr 91 (1); 3 May 91 (1); 23 Jun 91 (1); 43 Jly 91 (1); 7 Oct 91 (1)  
Odds and Ends - tidbits of TV history
- TV11 55 Aug 91 (1)  
basic info about skip propagation modes
- TV12 40 Sep 91 (2)  
Whatever happened to channel 1?

## RECEPTION REPORTS

- RR1 F2 TV DX RECEPTION REPORTS from Pat Dyer, San Antonio:  
21 Jun 79 (1); 24 Jan 82 (1); 46 Mar 82 (1); 3 Apr 83 (1);  
32 May 83 (1); 3 Jly 83 (1); 24 Sep 84 (1)
- RR2 SOUTH AMERICAN FM REC. REPORTS from A. Roccaforte, La Plata, ARGENTINA:  
48 Sep 85 (1); 22 Feb 86 (2); 43 Aug 86 (1)
- RR3 PIRATE RECEPTIONS
  - 1. In "Mailbox" column, 3 Apr 85 (1)
  - 2. In "Northern FM DX" column, 31 Nov 85; 27 Feb 86; 13 Aug 86 (3)

# TECHNICAL TOPICS

- TT2 8 Jly 79 (3)  
Is M.S. possible on rabbit ears? Is M.S. seen on UHF? Lightning scatter. 300-ohm vs. 75-ohm lead in; using F connectors. Why RG-59 is poor for use at UHF. Good cable to use at PSB frequencies.
- TT3 25 Sep 79 (1)  
FM tuner specifications. Is it possible to hear 10W by E-skip?
- TT4 44 Nov 79 (2)  
Horiz. & Vertical polarization. Circular pol. What is E-skip?
- TT5 28 Jan 80 (2)  
What is a log-periodic antenna? What does "50dB quieting" mean? Problems with a UHF TV preamp. Specific-channel vs. broadband antennas.
- TT6 25 Mar 80 (1)  
Minimum height for a good antenna. How ant. height affects UHF & VHF.
- TT7 34 Apr 80 (1)  
Explanation of CCI patterns. TV offsets. Can 10kHz look like 20kHz CCI?
- TT8 27 May 80 (2)  
Simple, homemade indoor antenna (quad loop). Are preamps useful during E-skip openings? How to be warned of a potential opening.
- TT9 26 Jun 80 (1)  
Problems with interaction between antennas.
- TT10 39 Aug 80 (1)  
UHF antennas for DX'ing. Comparison of Finco P-5 and P-7 dishes.
- TT11 50 Sep 80 (1)  
All about S-meters. Can an FM antenna be used for TV? Preamps.
- TT12 27 Oct 80 (1)  
The Discone antenna. Can a UHF TV antenna be used for PSB?
- TT13 13 Dec 80 (2)  
Indoor UHF antennas for DX'ing. How to stack antennas.
- TT14 6 Jan 81 (1)  
Is it possible to have good mid-winter tropo DX?
- TT15 34 Feb 81 (1)  
Log vs. Yagi FM antennas. What is a "wedge" test pattern? Does tropo occur on the 30-50 MHz band? Likely times to look for Es.
- TT16 24 Mar 81 (2)  
Why preamps work best located at antenna. About UHF traps. Disadvantages of preamps. Losses from baluns and cables. Why nulls don't occur where they are expected.
- TT17 23 May 81 (1)  
The connection between E-skip and thunderstorms.
- TT18 25 Jun 81 (1)  
Are omnidirectional antennas useful? Discount antenna imitations.
- TT19 34 Jly 81 (1)  
Coax cable losses; general information about coax.
- TT20 46 Aug 81 (1)  
Info. about the Perseids meteor shower. When to look for M.S.
- TT21 43 Sep 81 (1)  
Picket-fencing and multipath effects on car FM radio reception.
- TT22 23 Oct 81 (1)  
The most common VHF TV antenna used by club members.
- TT23 31 Jan 82 (1)  
Are tuners or "receivers" the better DX performers?
- TT24 30 Feb 82 (1)  
Advantages of vertically mounting a TV antenna for DX'ing. How well a vertical antenna will work for PSB DX'ing.
- TT25 45 Mar 82 (1)  
How to best use UHF preamps and traps.
- TT26 27 Apr 82 (1)  
About auroral DX. What it looks like when seen on TV.
- TT27 38 Jly 82 (1)  
Best all-channel DX antenna. How height affects performance.
- TT28 30 Nov 82 (2)  
Information about coax and twin-lead; installation.
- TT29 29 Dec 82 (1)  
Where to locate and how to use a preamp for TV DX.
- TT30 3 Feb 83 (1)  
Comparison between the Finco FM-4G and FM-5 antennas.
- TT31 27 Mar 83 (1)  
Auroral DX tips.

## TT1 THE WIFDA "DX'ERS ENCYCLOPEDIA" (36 pages)

The "Technical Topics" columns that ran before April, 1983, were written in a Q and A format, using questions actually sent by members to club HQ. They are not full articles, but brief discussions about specific topics of interest to DX'ers. This package, TTL, puts all of these columns (items TT2-TT31, as listed above) into one good reference.

## TECHNICAL TOPICS (McVey)

Note: Technical Topics now appears as full articles on aperiodic basis.

- 074 21 Oct 84 (2)  
Servicing antenna rotors.
- 077 40 Nov 84 (2); 20 Apr 85 (2)  
All about selectivity: theory and applications.
- 082 22 Feb 85 (2); 29 Mar 85 (2)  
Notes on building and installing a home-built SCA decoder.
- 083 32 Sep 85 (2)  
NASA's Skylab ionospheric experiments.
- 084 19 Oct 85 (1)  
All about FM broadcast pre- and de-emphasis.
- 085 31 Feb 86 (2)  
Project: a home-built stereo headphone amp for tuners.
- 086 23 Mar 86 (5); 6 Jun 86 (4)  
All about signal and tuning meters: theory, design, and application.
- 087 2 Aug 86 (3)  
The use of polarization in broadcasting.
- 088 2 Sep 86 (3)  
All about coaxial cable.
- 093 2 Feb 87 (5) THE NATURE OF DX, PART 1  
Fundamentals of propagation of VHF/UHF signals through the troposphere.
- 098 30 Apr 87 (6) TNODX, PART 2  
How tropo DX occurs and where; how to make predictions based on weather.
- 099 7 Nov 87 (5) TNODX, PART 3  
All about path loss, signal fading, etc.
- 102 20 Feb 88 (3)  
A discussion about overloading, spurs, intermods, birdies...
- 108 16 Jly 88 (3)  
Spectral analysis of FM and TV bands and signals.
- 110 3 Nov 88 (3)  
Technical news: what's going on with HDTV.
- 111 4 Mar 89 (4) TNODX, PART 4  
Introduction to ionospheric layers and how they relate to DX.
- 117 4 Aug 89 (2)  
Build a directional, quad-loop VHF antenna for indoor use.
- 122 5 Apr 90 (5); 18 Nov 90 (4)  
All about tuner mods for improved selectivity; ceramic IF filters, etc.
- 131 3 Apr 91 (3)  
Preamp basics; tests of the Winegard UT-2700 tunable UHF trap.
- 133 3 Jun 91 (1)  
The mystery of backscatter.

## ANTENNA NEWS Column (Dornbos)

- AN1 13 Jun 83 (3)  
(BIB. 1935-1945) Antennas and reflectors; theory. Antenna mounting.
- AN2 25 Jly 83 (3)  
(BIB. 1945-1947) Tripod as antenna mounts. When & how to buy DX gear.
- AN3 35 Aug 83 (3)  
(BIB. 1948-1952) All about antenna mast pipe.
- AN4 4 Sep 83 (4)  
(BIB. 1953-1956) All about towers.
- AN5 19 Nov 83 (3)  
(BIB. 1957-1960) All about antenna rotors.
- AN6 15 Dec 83 (4)  
(BIB. 1961-1963) Transmission line theory; balanced vs. unbalanced
- AN7 16 Jan 84 (3)  
(BIB. 1964-1968) Transmission line theory: impedance.
- AN8 12 Feb 84 (3)  
(BIB. 1968-1971) Transmission line hints & tricks; the 39 $\mu$  trap; baluns.
- AN9 21 Mar 84 (4)  
(BIB. 1971-1974) Coax cable product comparison; what to buy.
- AN10 14 Apr 84 (2)  
(BIB. 1974-1976) Traps and filters.
- AN11 18 May 84 (4)  
(BIB. 1977-1978) Preamps and preamp theory; noise figure.
- AN12 14 Jun 84 (3)  
(BIB. 1978-1980) Bandpass response of preamps; product comparisons.
- AN13 40 Jly 84 (2)  
(BIB. 1979-1982) Still more on preamps.
- AN14 3 Aug 84 (4)  
(BIB. 1983-1984) Consumer Electronics Show report; the decibel.



ANTENNA NEWS Column, Continued

- AN15 13 Sep 84 (2)  
Automobile and R.V. antennas.
- AN16 32 Nov 84 (3)  
All about automotive FM antennas: theory and practice.
- AN17 8 Dec 84 (3)  
List of addresses of antenna and hardware manufacturers.
- AN18 28 Feb 85 (3)  
Antennas for scanners: theory and practice.
- AN19 28 Apr 85 (4)  
All about indoor FM antennas; product comparisons.
- AN20 22 Jun 85 (3)  
All about outdoor FM antennas.
- AN21 38 Sep 85 (4)  
More on outdoor FM antennas. The Consumer Electronics Show.

NOTE: a complete bibliography covering almost every magazine article published from 1935 to 1984 on antennas or related topics, was supplied in several installments in the ANTENNA NEWS column. "BIB." indicates the years covered each month.

WHOOPS!

The following article should have appeared under EQUIPMENT REVIEWS:

132 THE ANTENNACRAFT FM-13 - Allen, 30 May 91 (4)

The VHF-UHF DIGEST TECHNICAL INDEX is now complete and updated from 1979 to 1992. (The first version of this index appeared in the Dec 86 VUD, pages 2-6.) There are just over 200 entries, covering every edition from June, 1979 to the present. Now, it is possible to locate information about 'most any topic of interest to DX'ers. (To conserve space, the categories on beer, football, and poker tricks have been omitted.) There has been some superb talent contributed to the WTFDA club over the past several years, and there's no reason for those efforts to go unrecognized or unused.

This index is organized by topic, with separate headings for the "Technical Topics" column of Bill Thompson, the "Antenna News" column of Doug Dornbos, the "TV Time Tunnel" column by Tom Bryant, and some of Bill Fahber's "Television News" columns. Every entry has its own reference number, title, author, page number, number of pages, and VUD edition. For example:

038 LOOPS, EARS, AND DX - Grant, 22 Dec 81 (1)

This article, written by Robert Grant, appears on page 22 of the December, 1981 VUD and is one page in length. Titles are in all capital letters, and quick descriptions are given when the title may not explicitly say what the article is about. I have made every effort to make this index complete and accurate, including a few corrections from the original index. It has been double-checked so that, hopefully, no articles have been overlooked or misprinted. I do welcome any comments or suggestions, or notice of any errors/omissions. Copies of this index are always available for free (with a large SASE) from me at the address below.

Any of the items in this index are available as reprints! This extremely popular service will be continued indefinitely. You may have noticed the three-digit number preceding each entry. This number can be used to order reprints. In addition, it ranks the articles in chronological order.

TO ORDER REPRINTS...just order as you would from any mail-order catalog. Send me a note with the numbers of all the articles you want, plus ten cents per page. Use the number in parentheses to total up page count. Note that I need 10¢ per page, not per 2 pages as before. This is due to extra postage and copying costs; I do not make any profit doing this. I cannot cash checks payable to WTFDA.

Since starting this reprint service back in '87, I've sent out over 10,000 pages of material to over 100 requestors. At first, I was handling about one request every week; a couple of people even asked for a copy of everything! Every item has been requested at one time or another, reflecting the diverse interests of what many would see as a very narrow-interest club. Antenna articles are always the most popular, as well as equipment reviews, although many of these are becoming obsolete. I urge anyone out there with ideas for articles, pieces of gear or antennas that you are very happy/unhappy with, or new opinions about old topics, to write it down and share it with others. You could achieve immortality on the next index!

TIM McVEY (US address) PSC 45, BOX 1066, APO, AE 09468

(non-US address) 17 Park Gate, Knaresborough, HG5 9DR, England

# QSL CORNER & LOGOS RUN

Thomas J. Yingling, Jr.

ARS: KAJTCC

221 Pinewood Road

Baltimore, MD 21222-2345

WI WDOR 93.9 Sturgeon Bay, Box 549, 800 S. th Ave., zip 54235. Received back my PFC (prepared file card) for qsl, signed by an Edward D. ????? (Ross)

FL WXTB 27.9 Clearwater, 2 Corp. Dr., Suite 550, zip 34622. PFC back in 3 weeks from P. Scott Miller, CE.(Ross)

KS KNGM 91.9 Emporia, Box 506, Zip 66801. Received PFC back in 4 weeks from Steve Pearson, GM. (Ross)

FL WEAT 104.3 West Palm Beach, 2406 S.Congress Ave., Zip 33406. PFC & QSL Card in 2 weeks from Bert Brown, CE. (Ross)

FL WHYI 100.7 Ft. Lauderdale, 2741 N. 29th Ave., Suite 300, Hollywood, FL Zip 33020. PRC & QSL Card from Howard Quinton, CE in 2 weeks. (Ross)

TX KYYK 98.3 Palestine, Box 649, Zip 649, Zip 75802. PFC & letter back in 1 month from Wayne Wilke, CE. (Ross)

KS KHCD 89.5 Salina, 815 N. Walnut, Suite 300, Hutchinson, FL Zip 67501.

PFC in 1 month from Fred W. 777, CE. (Ross)

FL WOYK 99.5 St. Petersburg, 9450 Koger Blvd., Zip 33702. PFC in 2 weeks from Dr. Frank Henry 7, CE. (Ross)

MB CHIQ 94.3 Winnipeg, 1445 Pembina Hwy. Zip R3T-5C2. PRC in 1 month from an unreadable person. (Ross)

OK KMSI 88.1 Moore, Box 1924, Tulsa, OK 74101. PFC in 1 month from John R. McNay, Jr., Eng. (Ross)

FL WOZN 98.3 Key West, Box 1874, Tallahassee, FL Zip 32302. PFC in 1 month from Bob T. ????? (Ross)

GA WTUF 106.3 Boston, 117 Remington Ave., Box 3086, Thomasville, GA Zip 31799. PFC in 1 month from Jerry E. White. (Ross)

FL WWRM 107.3 St. Petersburg, 877 Executive Center Dr., Zip 33702. PFC in 1 month from David Solinse, CE in 1 month. (Ross)



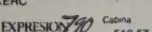
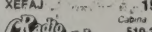
AZ KAFF 92.9 Flagstaff, P. O. Box 1930, Zip 86002. Letter from Tim Garritt, Program Dir. who sent nice letter, coverage-map, market data bumper stickers, saying it's their first summer operating with full power of 100,000 watts, & that they have been heard in Alberta. (Elving)

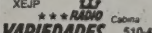
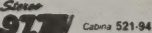
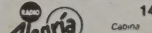
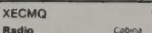
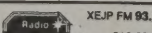
CO KIOX 101.3 Durango, P. O. Box "X", Zip 81302. Letter from Bruce Anderson, Technical Manager sent very friendly letter, mentioning also dx from TX & FL as well regular reception across the

Continental Divide, but not able to get the signal into Delores, CO, "less than an hour's drive away." (Elving)  
CO KBLJ 92.1 La Junta, P. O. Box 485, Zip 81050. Paul Coates, GM saying my report is the greatest distance they have heard from. (Elving)  
CO KDHT 92.5 Greeley, 9351 Grant St., Thornton, CO Zip 80229. Letter from David W. Sawyer, CE sent a nice letter & bumper sticker, and wanting info on the current "FM Atlas" (Elving)

MT KGLT 91.9 Bozeman, 320 SUB/MSU, Zip 59717. Brief handwritten note at bottom of program guide by a person with an unreadable signature who says "Hope you can still us." (Elving)  
MT KBOZ 93.7 Bozeman, P. O. Box 20, Zip 59715. Letter from John P. Brandt, Jr. VP/GM. Also send map & station coverage profile. They had heard from a listener in Norway not long ago (1090khz. AM dial). Other DX'ers take note: "We are always interested to hear from out listeners, especially those far way!"

Reporters: Robert S. Ross, VE3JFC; London, Ont & Bruce F. Elvings; Esko, MN. I hope this month column looks okay. I'm trying out Word for Windows on my IBM-PC. Still don't have the video frame grabber yet. I'm out again of QSL items again, but some Logos came in mail. 73's for now, see you down the log.

 <b>ORGANIZACION RADIO CENTRO</b> ARTICULO 123 No. 90, DELEG. CUAUHTEMOC, 06050 MEXICO, D.F. <b>CONMUTADOR 510-48-60 CON 20 LINEAS</b>	
<b>XEQR 1030</b>  Cabina 512-75-17 y 512-75-52	<b>VENTAS 510-14-83</b> <b>CONTINUIDAD 521-91-75</b> <b>NOTICIEROS 510-04-68</b> <b>Fax: 512-85-88</b>
<b>XERC</b>  Cabina 512-57-28 y 512-57-45	<b>XEFAJ 15-60</b>  Cabina 510-33-17 y 510-28-70

<b>XEJP</b>  Cabina 510-47-05 y 510-47-06	<b>Sinar 97.1</b>  Cabina 521-94-44
<b>XEAG</b>  Cabina 512-78-10 y 512-52-65	<b>XEQR FM 107</b> <b>RADIO UNIVERSAL</b> Cabina 518-56-70
<b>XECMQ</b>  Cabina 512-47-52 y 512-15-12	<b>XEJP FM 93.7</b>  Cabina 518-20-33



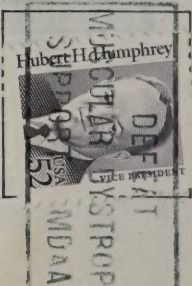
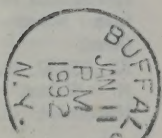


# WORLDWIDE TV-FM DX ASSOCIATION

POST OFFICE BOX 514-BUFFALO, NY 14205-0514-U.S.A.

OPINIONS EXPRESSED IN THIS PUBLICATION ARE THOSE OF THE INDIVIDUAL CONTRIBUTOR AND DO NOT NECESSARILY REFLECT THE VIEWS OF THE PUBLISHER OR BOARD OF DIRECTORS. WE RESERVE THE RIGHT TO EDIT MATERIAL TO MEET PUBLISHING STANDARDS. UNLESS PREVIOUSLY AGREED UPON IN WRITING, ALL MATERIAL SUBMITTED FOR PUBLICATION IN THE WF-4F DIGEST BECOMES THE PROPERTY OF W.T.F.D.A.

REPRODUCTION OF MATERIAL FROM THE WF-4F DIGEST WITHOUT PERMISSION OF W.T.F.D.A. IS PROHIBITED. INDIVIDUALS AND OTHER ORGANIZATIONS ARE GRANTED SUCH PERMISSION PROVIDING PROPER CREDIT IS GIVEN TO THE SOURCE.



first class mail

6/92

ALFRED LAUN

P O BOX 31097

TEMPLE HILLS MD 20757